

**REPORT
QUARTERLY GROUNDWATER SAMPLING
THIRD QUARTER 2007
MARYLAND SQUARE SHOPPING CENTER
3661 SOUTH MARYLAND PARKWAY
LAS VEGAS, NEVADA
For AL PHILLIPS THE CLEANER**

**URS Corporation
Job No. 26698724.00005
December 6, 2007**



December 6, 2007

National Drycleaners, Inc.
c/o Randall Jackson
Williams & Company Consulting, Inc.
9237 Ward Parkway, Suite 114
Kansas City, MO 64114

Al Phillips the Cleaner
3250 Ali Baba Lane, Suites C-F
Las Vegas, NV 89118
Attn: Mr. Stephen Mailloux

Re: **Third Quarter 2007 Groundwater Sampling**
Maryland Square Shopping Center
3661 South Maryland Parkway, Las Vegas, Nevada
Facility ID: H-000086

Gentlemen:

URS Corporation is pleased to submit the Third Quarter 2007 quarterly groundwater sampling event report for the Maryland Square Shopping Center. Groundwater from 10 monitoring wells was sampled during this quarterly sampling event. The groundwater samples were submitted to a laboratory to test for volatile organic compounds. Analysis of total organic carbon, dissolved iron, and manganese, chloride, nitrate, sulfate, and alkalinity was also performed for selected groundwater samples.

The Nevada Division of Environmental Protection requires the following statements to be provided by the responsible Environmental Manager for this project (per NRS 459.500):

"I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein."

"I, Scott Ball, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations and ordinances."

Sincerely,

URS Corporation

Scott Ball, CEM #1316
Expires Oct 15, 2009
Project Manager

cc: Mary Siders, NDEP

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**REPORT
GROUNDWATER SAMPLING
THIRD QUARTER 2007
MARYLAND SQUARE SHOPPING CENTER
3661 SOUTH MARYLAND PARKWAY
LAS VEGAS, NEVADA**

Prepared for:

**Al Phillips the Cleaner
3250 W. Ali Baba Lane, Suites C-F
Las Vegas, Nevada 89118**

and

**National Drycleaners, Inc.
c/o Randall Jackson
Williams & Company Consulting, Inc.
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Prepared by:

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811 Grier Drive
Las Vegas, Nevada 89119**

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1.0 INTRODUCTION AND BACKGROUND

This report presents the results of the Third Quarter 2007 groundwater sampling event at the former Al Phillips the Cleaner (Al Phillips), Maryland Square Shopping Center located at 3661 South Maryland Parkway in Las Vegas, Nevada (Figure 1). This report includes the results of groundwater sampling of 10 of the 27 monitoring wells located on and around the Al Phillips site during September 2007. URS Corporation (URS), on behalf of Al Phillips, conducted the work. As required by state law, this project is being performed under the supervision of a certified environmental manager.

Al Phillips took over control of assessment activities at the site from the Herman Kishner Trust in the spring of 2004, after which all site characterization and monitoring work has been conducted by URS.

Prior to URS site investigations, Converse Consultants (Converse) performed several subsurface assessments and groundwater sampling at the former Al Phillips facility from August 2000 through March 2004. Converse's findings indicated that tetrachloroethylene (PCE) was detected in soil beneath the former facility and in groundwater adjacent to, and downgradient from, the facility. URS reviewed Converse reports (see References) and other documents obtained from Converse and the Nevada Division of Environmental Protection (NDEP).

URS then evaluated the data to assess whether or not the PCE source area for the groundwater plume, the lateral and vertical extent of the groundwater plume, the geology of the site, and the nature of PCE concentrations in the groundwater plume, were characterized. Based upon Converse's reports, concentrations of PCE above regulatory levels are present in soil beneath the former facility and in groundwater. Al Phillips and URS met with NDEP on April 29, 2004, to discuss the transfer of site responsibility to Al Phillips from the Herman Kishner Trust. Following this meeting, a work plan for additional characterization was prepared with a final revised plan issued September 10, 2004, as noted above.

In addition to the data provided by Converse, URS obtained findings from SECOR International Incorporated (SECOR, 2004) regarding the presence of a hydrocarbon plume in downgradient monitoring well MW-11. This monitoring well is located on the Boulevard Mall property, east of the former Al Phillips site. This well was sampled on February 12, 2004, by representatives from both SECOR and Converse. Analysis of the samples determined that a phase-separated liquid, identified as a weathered gasoline, was present in the groundwater from the well. SECOR performed remedial action at this well from April 2005 to March 2007 to remove hydrocarbon-contaminated water.

In April 2005, URS drilled seven boreholes in and around the site of the former Al Phillips the Cleaner facility. URS drilled three boreholes (B-6, B-7, and B-8) around the area where the dry cleaning equipment was formerly located. The other five boreholes (B-9 through B-12) were drilled



in areas surrounding the location. Soil samples were taken at 5-foot intervals from each borehole, except for B-11 and B-12. Based on analytical results from the soil samples collected during the April 2005 drilling and sampling event, only three soil samples (B-8-5', B-10-10', and B-10-15') exceeded the preliminary remediation goal (PRG) for PCE of 3,400 micrograms per kilogram ($\mu\text{g}/\text{kg}$) for soil located on an industrial parcel. The highest concentration detected was 120,000 $\mu\text{g}/\text{kg}$ in borehole B-10 at 10 feet below grade.

In addition to the boreholes, six new groundwater monitoring wells were installed by URS in March 2005. These wells are MW-17, MW-18, MW-22, MW-23, MW-24, and MW-25. Well MW-17 is located in the parking area east of the building formerly occupied by Al Phillips. Monitoring wells MW-18, MW-22, MW-23, MW-24, and MW-25 were installed in the residential area downgradient (east) of the Boulevard Mall and Al Phillips. Two additional groundwater monitoring wells were installed by URS in March 2006. These wells are MW-26 and MW-27. Well MW-26 is located downgradient (east) of well MW-25 on Seneca Lane. Well MW-27 is located downgradient (east) of well MW-26 on Ottawa Circle.

URS prepared a Source Removal Corrective Action Plan to further assess PCE contamination in the soil at the former Al Phillips Facility site in November 2006. Seventeen additional soil-sampling boreholes were drilled in February 2007, near the location of the 12 boreholes drilled in April 2005, as part of a Source Area Soil Assessment. Based on these investigations, URS proposed a remedial method, schedule and site-specific level of cleanup to the NDEP. URS also conducted an offsite soil vapor study in areas downgradient of the former site, including the Boulevard Mall parking lot and locations in the residential area east of the mall. Based on this new set of data, the NDEP is currently reevaluating the remedial approach to the downgradient groundwater contamination and has not authorized implementation of the Source Removal Corrective Action Plan.

In 2007, URS requested a reduction in the frequency of groundwater sampling for the site from quarterly to semi-annual monitoring (letter dated March 1, 2007). The NDEP approved the change with the following conditions:

- Water levels will be measured quarterly for all 27 monitoring wells.
- Ten of the 27 wells (MW-13, MW-14, MW-17 through MW-19, MW-20, MW-23 and MW-25 through MW-27) will be sampled each quarter.
- The remaining 17 of the 27 wells (MW-1 through MW-12, MW-15, MW-16, MW-21, MW-22 and MW-24) will be sampled semi-annually.



In August 2007, URS sent a request to NDEP to modify groundwater sampling procedures. The NDEP concurred with the request (letter dated September 10, 2007) to change from a three volume purge-and-sample method to low-flow sampling method using procedures established by the United States Environmental Protection Agency (USEPA) and American Standard for Testing Materials (ASTM). NDEP stipulated that the standards presented in ASTM D 6771-02 must be followed.

2.0 GROUNDWATER SAMPLING PROCEDURES

Based upon the well sampling schedule required by NDEP, groundwater samples from 10 (MW-13, MW-14, MW-17 through MW-20, MW-23, and MW-25 through MW-27) of the 27 monitoring wells were collected during this sampling event from September 17 through 21, 2007. As required by NDEP, depth to groundwater was measured at all 27 wells. Monitoring well MW-4, near the southwest corner of the western parking structure at the Mall, is located adjacent to several large trees and their roots have likely clogged the well screen, as evidenced by root stringers in the water when bailed, resulting in a measured 0.16 foot high water column. Monitoring well MW-11 has been used for remedial action to remove hydrocarbon-contaminated water. A noticeable hydrocarbon odor was detected this quarter while taking a water level reading in this well. URS contacted SECOR and confirmed there was gasoline sheen on water in well MW-11 when it was last accessed by SECOR. A request was recently submitted to NDEP to remove this well from future sampling events.

Before collecting samples at a well, each well was measured for depth to groundwater and then purged using a submersible pump. An electronic water level meter, accurate to the nearest ± 0.01 feet, was used to measure depth to water in each well before and periodically during well purging. Total well depths were also measured after samples were collected by lowering the weighted probe to the bottom of the well and recording the depth to the nearest 0.01 foot.

The 10 monitoring wells (referenced above) were purged prior to sampling using a low-flow or minimal draw down method. A portable pump with a low-flow power booster controller, low-flow control valve and non return check valve was carefully placed within the screened depth of the water column to minimize agitation of the water column. The pump was placed at or near the midpoint of the screen in a position at least 2 feet from the top and 2 feet from the bottom of the screen, where possible.

According to the ASTM, low-flow pumping refers to the velocity of water entering the pump intake and the formation pore water adjacent to the screen during pumping. The purpose is to minimize stress on the groundwater unit during pumping. Pumping flow rates between 0.1 to 0.5 liters per minute (L/min) are maintained in order to control the well screen entrance velocity and minimize turbulent flow to the well. Frequent water level draw down measurements were recorded during well purging to establish an optimum rate for pumping. Water quality parameters of temperature, pH, specific conductance (SC), DO, turbidity, total dissolved solids (TDS), and ORP were monitored during well purging to evaluate when stable values were attained. The criteria for defining stabilization of water quality parameters is presented in Table 1 of ASTM D 6771-02: pH - ± 0.2 pH units, Conductivity - $\pm 3\%$ of reading, DO - $\pm 10\%$ of reading or ± 0.2 mg/L whichever is greater, and ORP - ± 20 mV.



The depth to water, water quality measurements and purge volumes were entered in the purge log or Groundwater Sample Collection Log (Appendix A).

The pump, electronic water level meter and field meter probe were decontaminated before use at each well. Purge water and decontamination water was placed in DOT-approved 55-gallon drums. The drums were labeled and stored at the former Al Phillips facility, prior to disposal in accordance with regulations.

After purging a well, groundwater samples were transferred from the tubing directly into the appropriate sample containers and were numbered by well number on the sample container. The in line flow cell used for measuring parameters during purging, was bypassed during sampling.

Groundwater samples were collected in four different types of containers based on the selected analysis. Water samples to be analyzed for VOCs were collected in three 40-milliliter clear glass VOA vials pre-preserved with hydrochloric acid. Three VOA vials were collected in case one was to break during transport. The VOA vials were filled so that there was no headspace. Water samples to be analyzed for total organic carbon (TOC) were collected in 250-milliliter amber glass bottles pre-preserved with sulfuric acid. Groundwater samples to be analyzed for dissolved iron and manganese were collected in 250-milliliter clear plastic bottles pre-preserved with nitric acid. These samples were filtered by the laboratory prior to analysis. Groundwater samples to be analyzed for chloride, nitrate, sulfate, and alkalinity were collected in 500-milliliter clear plastic bottles that contained no preservative. Due to the 48-hour holding time for nitrate, groundwater samples collected in 250-milliliter amber glass bottles pre-preserved with sulfuric acid to be analyzed for TOC could be used in case the sample could not be analyzed within 48 hours.

Groundwater samples were labeled with the date and time the sample was collected, the sample and well number, and name of the firm and signature of the individual collecting the sample. The sample containers were sealed, labeled, and stored in a cooler with ice. Chain-of-custody forms (Appendix B) were filled out with all the appropriate sample information, and accompanied the samples to the analytical laboratory.

3.0 FIELD DATA AND TEST RESULTS

3.1 WATER LEVELS AND GRADIENT

The depth to groundwater in each of the 27 selected monitoring wells was measured between September 17 and 21, 2007. The values are listed in Table 1 along with historical data. The values ranged from approximately 12.45 feet below the top of casing in well MW-18 to 27.03 feet in well MW-16. Figure 2 shows hydrographs for shallow wells during the last 7 years. In general, groundwater elevations increased slightly in wells west of The Boulevard Mall. The general flow direction for the shallow aquifer is eastward, as indicated by the groundwater contours and flow directions shown on Figure 3.

3.2 GROUNDWATER ANALYSES AND CHEMISTRY

Ten groundwater samples, from the wells identified in Section 2.0, were analyzed for VOCs by USEPA Method 8260B. Samples from monitoring wells MW-13, MW-18, and MW-25 were also analyzed for total iron and manganese; chloride, nitrate, and sulfate; alkalinity; and TOC, by USEPA Methods 200.8, 300.0 and 310.1, and 415.1, respectively. The laboratory analytical reports and chain-of-custody forms are provided in Appendix B.

Table 2 summarizes field measurements of groundwater temperature, pH, SC, DO, TDS, ORP, and turbidity in the monitoring wells. Groundwater temperatures ranged from 24.23 to 32.45 degrees Centigrade (°C). Groundwater pH in shallow groundwater wells ranged from 6.72 to 6.84. Groundwater SC in shallow groundwater wells ranged from 3.26 to 3.56 microSiemens per centimeter (µS/cm). Field measurements of DO concentration in the groundwater are used to monitor the extent of natural attenuation occurring within the aquifer. DO concentrations below 0.5 milligrams per liter (mg/L) are considered characteristic of anaerobic conditions (Wiedemeier et al, 1998). DO concentrations during this sampling event in shallow groundwater wells ranged from 3.40 to 5.43 mg/L. TDS concentrations during this sampling event in shallow groundwater wells ranged from 2.1 to 2.3 grams per liter (g/L). ORP values for shallow wells ranged from 176 to 228 millivolts (mV). Field measurements of groundwater turbidity recorded during sampling of the wells ranged from 0 to 352 nephelometric turbidity units (ntu).

The Nevada Drinking Water Standards Maximum Contaminant Level (MCL) for PCE in groundwater is 5 micrograms per liter (µg/L). Analytical results for groundwater collected during this sampling event from shallow wells MW-13, MW-14, MW-17 through MW-20, MW-23, and MW-25 through MW-27 exceeded the PCE MCL. Table 3 summarizes the analytical data for PCE detected in the wells. Figures 4A and 4B show the PCE concentrations vs. time in the shallow and intermediate wells, respectively. The highest concentration of PCE detected this quarter was 2,000 µg/L in



shallow well MW-13. Well MW-13 is located down gradient from the site on the Boulevard Mall property near the northeast corner of the front parking garage and has historically had the highest PCE concentrations. The PCE concentration in well MW-27, which is the furthest downgradient well at the site, was 320 µg/L. Figure 5 shows the monitoring well locations, respective PCE concentrations for the shallow wells sampled this quarter, and the estimated PCE plume area for the shallow aquifer for this current sampling event.

Trichloroethene (TCE), cis-1, 2-dichloroethene, and vinyl chloride were not detected in groundwater this sampling event. TCE, cis-1,2-dichloroethene, and vinyl chloride are respectively first, second, and third order reductive dechlorination (anaerobic conditions) degradation compound of PCE. TCE has been detected in low concentrations in wells MW-2, MW-6, and MW-22 in prior sampling events.

Table 4 summarizes the results of laboratory testing for ionic compounds for the Third Quarter 2007 sampling event. Iron concentrations ranged from 1.6 to 2.0 mg/L and manganese concentrations ranged from non-detect to 0.01 mg/L. The anions (chloride, nitrate, and sulfate) ranged from 190 to 210 mg/L, 5.1 to 6.2 mg/L and 1,700 to 1,800 mg/L, respectively. Total alkalinity laboratory concentrations ranged from 210 to 240 mg/L. Total organic carbon (TOC) concentrations ranged from 1.2 to 1.3 mg/L.

4.0 CONCLUSIONS

4.1 GROUNDWATER SAMPLING CONCLUSIONS

In general, historical laboratory analytical data indicates that PCE concentration levels in monitoring wells have fluctuated over time, dating back to the first analysis by Converse in August 2000. Compared to the concentrations of PCE detected in June 2007, nine of the ten monitoring wells sampled this quarter showed decreased PCE concentrations and one increased. The estimated PCE plume area greater than 1,000ug/l for the shallow aquifer represented on Figure 5 is smaller than in previous sampling events due to the lower detected concentrations.

It is not clear however, whether this is a benefit of low-flow sampling or not. However, low-flow sampling is believed to provide improved sample accuracy and precision. This sampling method minimizes disturbance of wells and the surrounding formation and samples collected by this method represent a smaller section of the formation that allows for improved characterization of contaminant distribution over time and space. There is also an overall increase in sample reproducibility and reduction in sample variability (ASTM D 6771). Results of subsequent low-flow sampling events will be evaluated to better understand the observed changes in PCE concentrations and the estimated plume area.

Based on the groundwater monitoring results obtained during previous sampling events, it appears that the PCE groundwater plume is approximately 550 feet wide beneath the mall and a minimum of 3,300 feet long. The groundwater plume is relatively narrow and may follow an old paleochannel within the alluvial sediments.

4.2 REMEDIAL EFFORTS AND ASSESSMENTS

Maryland Square LLC (MS), owner of the former Maryland Square Shopping Center site, completed demolition of the buildings at the site in July 2006. According to MS' property management firm, CB Richard Ellis, plans for development of the property have not been selected.

A source removal Corrective Action Plan was submitted to NDEP in early December 2006 and additional soil investigations were performed in the source area during January 2007. An offsite soil vapor survey was conducted during March 2007 on the east side of the Mall property and in the residential area east of the Mall. In light of the data from both these investigations, the NDEP is reevaluating the onsite and offsite remedial approach.

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- Wiedemeier, T. H., et al. 1998. Technical protocol for evaluating natural attenuation of chlorinated solvents in ground water. U.S. Environmental Protection Agency, Office of Research and Development, Publication U.S. EPA/600/R-98/128.
- Yeskis, Douglas and Zavala, Bernard, 2002. Ground Water Forum Issue Paper: Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers. United States Environmental Protection Agency, Office of Solid Waste and Emergency Response, Publication EPA/542/S-02/001.

TABLES

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
SHALLOW WELLS						
MW-1	Aug-00	1,991.81	10-30	Oct 00	17.54	1974.27
		1,992.04		Sep 02	17.90	1974.14
				May 03	18.70	1973.34
				Sept 03	18.97	1973.07
				Jan 04	19.30	1972.74
				May 05	15.24	1976.80
				Sept 05	16.74	1975.30
				Dec 05	17.61	1974.43
				Mar 06	18.42	1973.62
				Jun 06	NM	NM
				Oct 06	18.30	1973.74
				Dec 06	18.88	1973.16
				Mar 07	20.08	1971.96
				Jun 07	19.81	1972.23
				Sep 07	18.39	1973.65
MW-2	Oct-00	1,983.79	10-32	Oct 00	15.52	1968.27
		1,983.99		Sep 02	16.62	1967.37
				May 03	17.15	1966.84
		1,983.97		Sept 03	17.70	1966.27
				Jan 04	18.25	1965.72
				May 05	14.65	1969.32
				Dec 05	16.00	1967.97
				Mar 06	NM	NM
				Jun 06	17.55	1966.42
				Oct 06	17.25	1966.72
				Dec 06	17.60	1966.37
				Mar 07	18.84	1965.13
				Jun 07	19.01	1964.96
				Sep 07	17.94	1966.03
				MW-3	Oct-00	1,984.19
1,984.46	Sep 02	17.20	1967.26			
	May 03	17.70	1966.76			
1,984.43	Sept 03	18.35	1966.08			
	Jan 04	19.25	1965.18			
	May 05	15.22	1969.21			
	Dec 05	16.45	1967.98			
	Mar 06	NM	NM			
	Jun 06	18.38	1966.05			
	Oct 06	17.88	1966.55			
	Dec 06	18.26	1966.17			
	Mar 07	19.86	1964.57			
	Jun 07	20.23	1964.20			
	Sep 07	18.99	1965.44			

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
MW-4	Oct-00	1,989.68	10-32	Oct 00	16.95	1972.73
		1,989.87		Sep 02	NM	NM
		1,989.85		May 03	18.71	1971.16
				Sept 03	19.05	1970.80
				Jan 04	19.86	1969.99
				May 05	15.83	1974.02
				Dec 05	17.62	1972.23
				Mar 06	NM	NM
				Jun 06	18.36	1971.49
				Oct 06	18.34	1971.51
				Dec 06	NM	NM
				Mar 07	NM	NM
				Jun 07	NM	NM
				Sep 07	18.96	1970.89
MW-5	Oct-00	1,988.93	10-32	Oct 00	16.20	1972.73
		1,989.18		Sep 02	17.00	1972.18
				May 03	17.80	1971.38
				Sept 03	18.07	1971.11
				Jan 04	18.65	1970.53
				May 05	14.87	1974.31
				Dec 05	16.80	1972.38
				Mar 06	NM	NM
				Jun 06	17.40	1971.78
				Oct 06	17.46	1971.72
				Dec 06	18.01	1971.17
				Mar 07	19.30	1969.88
				Jun 07	19.12	1970.06
				Sep 07	17.85	1971.33
MW-6	Oct-00	1,988.72	10-32	Oct 00	17.41	1971.31
		1,989.01		Sep 02	18.26	1970.75
				May 03	18.87	1970.14
				Sept 03	19.25	1969.76
				Jan 04	19.74	1969.27
				May 05	16.21	1972.80
				Sept 05	17.26	1971.75
				Dec 05	17.88	1971.13
				Mar 06	NM	NM
				Jun 06	18.80	1970.21
				Oct 06	18.73	1970.28
				Dec 06	19.18	1969.83
				Mar 07	20.40	1968.61
				Jun 07	20.28	1968.73
Sep 07	19.00	1970.01				

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
MW-7	Sep 02	1,990.28	10-30	Sep 02	18.27	1972.01
		1,990.25		May 03	16.60	1973.68
				Sept 03	16.79	1973.46
				Jan 04	17.32	1972.93
				May 05	13.86	1976.39
				Sept 05	14.97	1975.28
				Dec 05	15.45	1974.80
				Mar 06	16.41	1973.84
				Jun 06	16.50	1973.75
				Oct 06	16.50	1973.75
				Dec 06	16.87	1973.38
				Mar 07	18.19	1972.06
				Jun 07	18.08	1972.17
				Sep 07	16.31	1973.94
MW-8	Sep 02	1,994.25	10-30	Sep 02	18.55	1975.70
		1,994.23		May 03	19.50	1974.75
				Sept 03	19.55	1974.68
				Jan 04	19.91	1974.32
				May 05	15.51	1978.72
				Dec 05	18.48	1975.75
				Mar 06	NM	NM
				Jun 06	18.89	1975.34
				Oct 06	19.12	1975.11
				Dec 06	19.60	1974.63
				Mar 07	20.56	1973.67
				Jun 07	20.31	1973.92
				Sep 07	19.14	1975.09
				MW-10	Sep 02	1,983.81
1,983.80	May 03	18.65	1965.16			
	Sept 03	19.45	1964.35			
	Jan 04	20.32	1963.48			
	May 05	16.76	1967.04			
	Sept 05	16.95	1966.85			
	Dec 05	17.64	1966.16			
	Mar 06	19.25	1964.55			
	Jun 06	17.90	1965.90			
	Oct 06	19.00	1964.80			
	Dec 06	19.21	1964.59			
	Mar 07	20.84	1962.96			
	Jun 07	21.39	1962.41			
	Sep 07	20.38	1963.42			
MW-11	Sep 02	1,980.24	13.5-33.5	Sep 02	24.22	1956.02
				May 03	24.25	1955.99
				Sept 03	25.62	1954.62
				Jan 04	26.22	1954.02
				May 05	22.55	1957.69
				Mar 06	NM	NM

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
MW-11	Sep 02	1,980.24	13.5-33.5	Jun 06	NM	NM
				Oct 06	NM	NM
				Dec 06	NM	NM
				Mar 07	25.51	1954.73
				Jun 07	NM	NM
				Sep 07	26.13	1954.11
MW-12	Sep 02	1,996.59	13.5-33.5	Sep 02	14.90	1981.69
		1,996.50		May 03	15.07	1981.52
				Sept 03	15.30	1981.20
				Jan 04	15.40	1981.10
				May 05	12.34	1984.16
				Sept 05	13.45	1983.05
				Dec 05	14.20	1982.30
				Mar 06	15.00	1981.50
				Jun 06	NM	NM
				Oct 06	14.71	1981.79
				Dec 06	15.05	1981.45
				Mar 07	16.55	1979.95
				Jun 07	16.31	1980.19
				Sep 07	14.27	1982.23
MW-13	May-03	1,984.23	9-29	May 03	17.25	1966.98
		1,984.20		Sept 03	17.60	1966.60
				Jan 04	18.00	1966.20
				May 05	14.76	1969.44
				Sept 05	15.60	1968.60
				Dec 05	16.05	1968.15
				Mar 06	17.24	1966.96
				Jun 06	17.40	1966.80
				Oct 06	17.15	1967.05
				Dec 06	17.47	1966.73
				Mar 07	18.58	1965.62
				Jun 07	18.66	1965.54
Sep 07	17.41	1966.79				
MW-14	Nov-03	1,987.89	15-40	Jan 04	18.35	1969.54
				May 05	15.02	1972.87
				Dec 05	16.50	1971.39
				Mar 06	17.54	1970.35
				Jun 06	17.61	1970.28
				Oct 06	17.42	1970.47
				Dec 06	17.78	1970.11
				Mar 07	18.93	1968.96
				Jun 07	18.80	1969.09
				Sep 07	17.40	1970.49
				Jan 04	15.60	1967.68
				May 05	12.59	1970.69
				Sept 05	13.45	1969.83
				Dec 05	13.77	1969.51

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
MW-15	Nov-03	1,983.28	15-31	Mar 06	15.00	1968.28
				Jun 06	15.15	1968.13
				Oct 06	14.91	1968.37
				Dec 06	15.17	1968.11
				Mar 07	16.31	1966.97
				Jun 07	16.16	1967.12
				Sep 07	14.80	1968.48
MW-16	Nov-03	1,980.63	19-35	Jan 04	26.22	1954.41
				May 05	23.41	1957.22
				Sept 05	24.12	1956.51
				Dec 05	24.21	1956.42
				Mar 06	25.06	1955.57
				Jun 06	26.05	1954.58
				Oct 06	25.67	1954.96
				Dec 06	25.56	1955.07
				Mar 07	26.33	1954.30
				Jun 07	27.28	1953.35
MW-17 (4-inch)	Apr-05	1,990.92	15-30	Sep 07	27.03	1953.60
				May 05	15.07	1975.85
				Dec 05	17.05	1973.87
				Mar 06	NM	NM
				Jun 06	NM	NM
				Oct 06	17.91	1973.01
				Dec 06	18.41	1972.51
				Mar 07	19.63	1971.29
MW-18 (4-inch)	Apr-05	1,962.87	5-25	Jun 07	19.48	1971.44
				Sep 07	17.91	1973.01
				May 05	8.71	1954.16
				Sept 05	9.69	1953.18
				Dec 05	9.70	1953.17
				Mar 06	10.21	1952.66
				Jun 06	11.64	1951.23
				Oct 06	11.21	1951.66
				Dec 06	10.98	1951.89
				Mar 07	11.36	1951.51
				Jun 07	12.53	1950.34
				Sep 07	12.45	1950.42

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
MW-19	Nov-03	1,980.26	19-35	Jan 04	25.65	1954.61
				May 05	22.70	1957.56
				Dec 05	23.65	1956.61
				Mar 06	NM	NM
				Jun 06	25.55	1954.71
				Oct 06	25.23	1955.03
				Dec 06	25.01	1955.25
				Mar 07	25.77	1954.49
				Jun 07	26.84	1953.42
				Sep 07	26.41	1953.85
MW-20	Nov-03	1,979.99	19-35	Jan 04	25.50	1954.49
				May 05	22.58	1957.41
				Dec 05	23.55	1956.44
				Mar 06	NM	NM
				Jun 06	25.48	1954.51
				Oct 06	25.04	1954.95
				Dec 06	24.85	1955.14
				Mar 07	26.63	1953.36
				Jun 07	26.76	1953.23
				Sep 07	26.30	1953.69
MW-21	Nov-03	1,979.56	19-35	Jan 04	24.72	1954.84
				May 05	21.76	1957.80
				Sept 05	22.70	1956.86
				Dec 05	22.85	1956.71
				Mar 06	23.46	1956.10
				Jun 06	24.68	1954.88
				Oct 06	24.35	1955.21
				Dec 06	24.15	1955.41
				Mar 07	24.87	1954.69
				Jun 07	25.95	1953.61
MW-22 (4-inch)	Apr-05	1,974.76	15-35	Sep 07	25.44	1954.12
				May 05	23.04	1951.72
				Sept 05	24.18	1950.58
				Dec 05	24.30	1950.46
				Mar 06	24.68	1950.08
				Jun 06	25.91	1948.85
				Oct 06	25.79	1948.97
				Dec 06	25.49	1949.27
				Mar 07	24.73	1950.03
				Jun 07	26.91	1947.85
				Sep 07	26.90	1947.86

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
MW-23 (4-inch)	Apr-05	1,962.32	5-25	May 05	13.06	1949.26
				Dec 05	14.05	1948.27
				Mar 06	NM	NM
				Jun 06	15.60	1946.72
				Oct 06	15.48	1946.84
				Dec 06	15.16	1947.16
				Mar 07	15.12	1947.20
				Jun 07	16.40	1945.92
				Sep 07	16.61	1945.71
MW-24 (4-inch)	Apr-05	1,960.74	5-25	May 05	10.72	1950.02
				Sept 05	11.75	1948.99
				Dec 05	11.65	1949.09
				Mar 06	12.10	1948.64
				Jun 06	13.16	1947.58
				Oct 06	13.06	1947.68
				Dec 06	12.80	1947.94
				Mar 07	12.88	1947.86
				Jun 07	13.94	1946.80
				Sep 07	14.24	1946.50
MW-25 (4-inch)	Apr-05	1,960.74	5-25	May 05	16.01	1944.73
				Sept 05	17.45	1943.29
				Dec 05	16.85	1943.89
				Mar 06	17.30	1943.44
				Jun 06	18.64	1942.10
				Oct 06	18.75	1941.99
				Dec 06	18.61	1942.13
				Mar 07	17.72	1943.02
				Jun 07	19.31	1941.43
MW-26 (4-inch)	Mar-06	1953.48	10-35	Sep 07	19.96	1940.78
				Mar 06	15.60	1937.88
				Jun 06	17.00	1936.48
				Oct 06	17.17	1936.31
				Dec 06	NM	NM
				Mar 07	15.66	1937.82
				Jun 07	17.50	1935.98
MW-27 (4-inch)	Mar-06	1944.23	10-35	Sep 07	18.12	1935.36
				Mar 06	13.48	1930.75
				Jun 06	18.50	1925.73
				Oct 06	16.16	1928.07
				Dec 06	13.85	1930.38
				Mar 07	12.58	1931.65
				Jun 07	18.43	1925.80
				Sep 07	17.85	1926.38

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER ELEVATIONS
Maryland Square Shopping Center

Well ID	Install Date	Top of Casing (Elevation)	Screen Depth (in ft)	Sample Date	GROUNDWATER DEPTH/ELEVATION DATA	
					Depth to Water (in ft.)	Elevation (in ft.)
INTERMEDIATE WELL						
MW-9	Sep-02	1,992.26	48.5-50	Sep 02	18.46	1973.80
		1,992.26		May 03	19.15	1973.11
				Sept 03	19.02	1973.24
				Jan 04	19.05	1973.21
				May 05	15.36	1976.90
				Sept 05	17.85	1974.41
				Dec 05	17.68	1974.58
				Mar 06	18.55	1973.71
				Jun 06	NM	NM
				Oct 06	18.40	1973.86
				Dec 06	19.00	1973.26
				Mar 07	20.19	1972.07
				Jun 07	19.95	1972.31
				Sep 07	18.51	1973.75

NOTES: All wells are 2-inch diameter PVC casing and screen, unless indicated.
All measurements are in feet. Top of casing elevation is in feet above mean sea level.
All wells installed prior to September 2003 were resurveyed in September of 2003.
NM = Not Measured.

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
SHALLOW WELLS								
MW-1	Jan-04	6.97	22.50	3.48	0.93	NM	NM	NM
	May-05	7.02	26.04	3.98	5.43	110	441	NM
	Sep-05	7.08	27.50	4.16	6.99	129	64	2.7
	Dec-05	6.98	26.90	5.10	2.01	404	290	3.2
	Mar-06	**	23.10	5.62	**	545	>999	3.7
	Jun-06	NM	NM	NM	NM	NM	NM	NM
	Oct-06	6.32	26.74	3.71	4.61	129	81	2.4
	Dec-06	6.74	26.86	4.44	5.12	111	>999	2.8
	Jun-07	7.02	25.70	2.29	6.24	468	611	1.4
MW-2	Jan-04	7.05	23.20	3.10	1.13	NM	NM	NM
	May-05	6.93	23.40	3.47	4.82	193	698	NM
	Dec-05	6.63	25.40	4.82	2.67	264	360	3.1
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	24.90	3.70	6.98	116	728	2.4
	Oct-06	6.12	24.41	3.48	5.11	161	20	2.2
	Dec-06	6.78	24.53	4.19	4.94	241	28	2.7
	Jun-07	6.98	24.38	3.52	5.65	305	539	2.3
MW-3	Jan-04	6.87	22.40	2.91	0.97	NM	NM	NM
	May-05	6.99	26.00	2.88	2.54	149	**	NM
	Dec-05	6.55	27.30	4.69	0.88	33	100	3.0
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	26.40	3.76	5.61	-32	285	2.4
	Oct-06	5.91	26.71	3.90	2.04	279	26	2.5
	Dec-06	6.69	26.74	4.80	2.89	9	272	3.1
	Jun-07	7.06	25.86	3.70	3.59	43	605	2.4
MW-4	Jan-04	6.95	22.00	2.71	1.23	NM	NM	NM
	May-05	6.83	24.20	3.73	3.68	160	664	NM
	Dec-05	6.68	25.90	4.90	3.22	219	670	3.1
	Mar-06	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾
	Jun-06	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾
	Oct-06	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾
	Dec-06	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾
	Jun-07	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾	NM ⁽¹⁾

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
MW-5	Jan-04	6.72	22.30	2.61	1.20	NM	NM	NM
	May-05	7.09	25.40	2.59	4.56	184	**	NM
	Dec-05	6.78	26.80	5.28	1.51	377	>999	3.3
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	26.60	3.80	6.93	126	>999	2.4
	Oct-06	6.23	26.68	3.51	4.82	99	21	2.2
	Dec-06	6.81	26.46	4.49	5.36	93	134	2.9
	Jun-07	7.04	25.19	3.44	6.51	460	375	2.2
MW-6	Jan-04	6.97	22.40	2.31	1.19	NM	NM	NM
	May-05	6.91	25.90	2.35	2.81	123	**	NM
	Sep-05	6.99	26.90	3.95	6.23	-119	34	2.3
	Dec-05	6.80	26.50	4.86	1.10	163	220	3.2
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	26.70	4.00	6.34	172	707	2.4
	Oct-06	6.27	26.47	3.55	4.12	61	7	2.3
	Dec-06	6.69	26.22	4.23	4.37	239	96	2.7
	Jun-07	7.09	24.85	3.45	5.56	241	352	2.2
MW-7	Jan-04	7.00	22.40	2.23	0.93	NM	NM	NM
	May-05	7.10	24.79	1.79	4.03	129	**	NM
	Sep-05	6.97	26.60	4.62	6.22	144	140	3.0
	Dec-05	6.67	23.80	5.33	1.80	472	5	3.4
	Mar-06	4.67	22.40	6.71	**	634	428	4.2
	Jun-06	**	26.20	4.12	6.58	-14	>999	2.6
	Oct-06	6.24	25.03	3.68	4.41	92	>999	2.3
	Dec-06	6.86	25.11	4.80	5.72	65	>999	3.0
	Jun-07	7.12	25.08	3.59	6.26	129	450	2.2
MW-8	Jan-04	6.99	22.00	2.16	1.04	NM	NM	NM
	May-05	7.03	27.70	1.75	3.64	107	**	NM
	Dec-05	6.68	24.10	4.24	2.08	483	>999	2.7
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	27.40	3.66	6.92	185	>999	2.3
	Oct-06	6.24	26.73	3.44	5.86	108	>999	2.2
	Dec-06	6.91	27.01	4.27	6.96	103	>999	2.7
	Jun-07	7.05	27.29	3.52	7.27	287	259	2.3

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
MW-10	Jan-04	7.00	24.40	3.13	1.03	NM	NM	NM
	May-05	6.82	28.10	3.20	1.46	-253	25	NM
	Sep-05	6.96	27.90	2.90	3.89	-239	28	1.9
	Dec-05	6.69	23.90	3.66	1.47	-140	57	2.3
	Mar-06	5.73	21.30	1.77	**	-154	153	1.2
	Jun-06	**	28.10	2.10	3.54	-303	>999	1.5
	Oct-06	6.16	27.11	1.37	1.58	-272	86	0.9
	Dec-06	6.82	26.58	3.90	3.94	-321	144	2.5
	Jun-07	6.95	27.34	3.46	2.71	-179	>999	2.1
MW-11	Jan-04	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
	May-05	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
	Mar-06	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
	Jun-06	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
	Oct-06	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
	Dec-06	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
	Jun-07	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾	NM ⁽²⁾
MW-12	Jan-04	6.99	22.40	2.15	NM	NM	NM	NM
	May-05	6.76	24.90	2.58	3.22	219	**	NM
	Sep-05	7.03	25.60	4.22	4.96	95	160	2.7
	Dec-05	6.68	22.50	4.98	2.00	523	210	3.2
	Mar-06	**	23.50	6.65	**	503	91	4.2
	Jun-06	NM	NM	NM	NM	NM	NM	NM
	Oct-06	6.32	26.13	3.94	3.88	112	>999	2.5
	Dec-06	6.61	25.25	4.38	6.15	206	>999	2.8
	Jun-07	7.12	25.52	3.75	3.46	-39	>999	2.4
MW-13	Jan-04	6.61	22.20	3.29	1.07	NM	NM	NM
	May-05	6.97	24.50	2.06	4.16	118	>999	NM
	Sep-05	7.07	25.40	3.95	6.85	144	270	2.5
	Dec-05	6.70	24.90	5.03	2.19	250	330	3.2
	Mar-06	5.45	22.80	3.64	**	68	44	2.3
	Jun-06	**	24.20	3.72	7.11	120	425	2.4
	Oct-06	6.16	24.64	3.63	3.84	169	50	2.3
	Dec-06	6.75	24.53	4.25	4.17	330	94	2.7

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
MW-13	Mar-07	6.87	24.00	3.51	9.46	514	308	2.3
	Jun-07	7.04	23.57	3.49	6.14	411	0	2.2
	Sep-07	6.74	27.72	3.31	4.74	228	3	2.1
MW-14	Jan-04	6.99	22.30	2.27	1.30	NM	NM	NM
	May-05	6.95	24.70	3.23	NM	140	NM	NM
	Dec-05	6.78	26.10	5.31	2.07	206	>999	3.3
	Mar-06	5.23	24.20	6.76	**	234	898	4.3
	Jun-06	**	25.40	3.93	6.75	119	>999	2.5
	Oct-06	6.06	24.76	3.55	6.96	297	>999	2.3
	Dec-06	6.76	25.65	4.50	4.18	226	350	2.9
	Mar-07	6.82	25.10	3.71	8.08	501	455	2.4
	Jun-07	6.97	24.81	3.72	6.40	299	259	2.4
	Sep-07	6.77	32.19	3.49	4.15	220	103	2.2
MW-15	Jan-04	6.35	22.40	2.20	1.00	NM	NM	NM
	May-05	6.99	25.06	2.33	2.85	164	**	NM
	Sep-05	6.97	25.80	3.57	3.48	-24	36	2.3
	Dec-05	6.58	25.90	4.45	1.03	-38	140	2.8
	Mar-06	4.70	23.90	6.40	**	613	20	4.0
	Jun-06	**	26.00	3.84	4.26	106	300	2.5
	Oct-06	6.17	25.72	3.66	2.01	51	10	2.3
	Dec-06	6.78	25.85	4.68	3.44	28	15	3.0
MW-16	Jan-04	6.97	22.40	2.31	0.68	NM	NM	NM
	May-05	7.12	25.20	2.88	1.10	-4	**	NM
	Sep-05	7.00	24.60	3.42	3.50	-31	520	2.3
	Dec-05	6.74	25.30	3.76	1.30	48	>999	2.4
	Mar-06	5.15	23.80	5.74	**	162	199	3.6
	Jun-06	**	27.10	3.44	5.56	-64	>999	2.2
	Oct-06	6.25	24.60	3.39	2.00	-145	32	2.2
	Dec-06	6.52	24.39	3.62	2.87	-52	271	1.3
	Jun-07	6.72	24.96	3.27	2.23	94	282	2.1

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
MW-17*	May-05	6.92	24.10	3.49	5.94	181	22	NM
	Dec-05	6.90	26.80	4.65	2.30	240	6	3.0
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	NM	NM	NM	NM	NM	NM	NM
	Oct-06	6.22	24.91	3.45	7.36	174	2	2.2
	Dec-06	6.86	24.08	4.14	6.81	386	25	2.7
	Mar-07	7.00	24.30	3.56	8.12	350	87	2.3
	Jun-07	7.02	25.03	3.66	7.26	471	37	2.3
	Sep-07	6.74	26.74	3.44	4.95	197	0	2.2
MW-18*	May-05	7.10	24.30	3.86	5.56	139	>999	NM
	Sep-05	7.10	26.30	4.12	6.21	88	3	2.6
	Dec-05	6.79	25.20	4.73	1.98	420	**	3.0
	Mar-06	5.17	23.30	6.21	**	237	3	3.9
	Jun-06	**	25.40	3.61	6.18	166	304	2.3
	Oct-06	6.30	25.54	3.47	4.06	127	0	2.2
	Dec-06	6.80	24.69	4.16	4.30	297	0	2.7
	Mar-07	7.01	22.80	3.44	7.53	286	23	2.2
	Jun-07	7.02	23.94	3.46	5.54	394	24	2.2
	Sep-07	6.81	29.30	3.28	5.43	210	22	2.1
MW-19	Jan-04	6.99	22.40	1.90	1.02	NM	NM	NM
	May-05	7.13	25.03	1.86	5.76	130	**	NM
	Dec-05	6.64	24.70	4.74	1.95	388	**	3.0
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	27.10	3.69	7.86	86	>999	2.4
	Oct-06	6.10	23.91	3.69	4.60	175	>999	2.4
	Dec-06	6.80	23.91	4.38	5.70	595	>999	2.8
	Mar-07	6.93	24.30	3.66	9.08	284	>999	2.3
	Jun-07	7.10	24.46	3.53	6.72	551	>999	2.3
	Sep-07	6.84	27.36	3.40	5.09	201	352	2.2
MW-20	Jan-04	6.94	22.60	2.07	1.11	NM	NM	NM
	May-05	7.16	23.56	1.32	4.97	131	**	NM
	Dec-05	6.76	20.50	4.37	0.77	272	**	2.8
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	28.60	3.82	6.91	70	736	2.1

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
	Oct-06	6.13	23.66	2.63	4.11	234	>999	1.8
MW-20	Dec-06	6.79	23.86	4.11	4.34	245	284	2.6
	Mar-07	6.92	23.80	3.34	9.84	530	999	2.2
	Jun-07	7.04	23.82	3.45	5.39	346	>999	2.2
	Sep-07	6.83	32.45	3.26	4.42	207	248	2.1
MW-21	Jan-04	6.91	22.30	2.04	1.08	NM	NM	NM
	May-05	7.07	24.59	2.82	2.88	131	**	NM
	Sep-05	7.06	25.80	4.66	4.07	109	39	2.6
	Dec-05	6.64	24.30	4.60	0.54	264	>999	2.9
	Mar-06	5.52	23.00	3.58	**	309	140	2.3
	Jun-06	**	28.50	3.50	4.73	112	>999	2.3
	Oct-06	6.24	24.11	3.46	1.99	79	>999	2.2
	Dec-06	6.74	24.02	4.48	2.72	89	617	2.9
	Jun-07	7.03	24.17	3.44	4.22	373	>999	2.2
MW-22*	May-05	6.79	24.14	3.89	1.68	46	474	NM
	Sep-05	6.90	23.90	4.25	7.16	46	10	2.7
	Dec-05	6.42	24.60	4.20	1.31	213	**	2.7
	Mar-06	4.79	24.00	6.09	**	269	30	3.8
	Jun-06	**	26.40	3.39	5.96	376	287	2.2
	Oct-06	5.98	23.79	3.74	2.43	141	11	2.4
	Dec-06	6.48	23.50	4.48	3.52	477	0	2.9
	Jun-07	6.72	24.31	3.77	3.39	137	26	2.4
MW-23*	May-05	7.00	24.50	3.63	2.56	121	**	NM
	Dec-05	6.71	24.90	4.91	2.13	320	**	3.1
	Mar-06	NM	NM	NM	NM	NM	NM	NM
	Jun-06	**	23.80	3.68	5.77	238	318	2.3
	Oct-06	6.27	23.95	3.50	2.51	107	0	2.2
	Dec-06	6.79	24.15	4.21	3.20	2	0	2.7
	Mar-07	NM	NM	NM	NM	NM	NM	NM
	Jun-07	6.99	23.54	3.49	4.23	301	31	2.2
	Sep-07	6.81	25.84	3.31	3.78	204	1	2.1
MW-24*	May-05	6.97	23.09	3.56	1.48	76	>999	NM
	Sep-05	7.00	25.80	3.83	3.62	5	25	2.4
	Dec-05	6.56	25.60	4.46	1.04	183	29	2.7

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
	Mar-06	4.70	22.60	6.02	**	503	1	3.8
	Jun-06	**	25.10	3.44	5.11	132	201	2.2
MW-24*	Oct-06	6.17	25.51	3.20	1.22	-23	0	2.0
	Dec-06	6.85	25.11	4.13	2.56	62	0	2.6
	Jun-07	7.05	23.24	3.25	2.53	409	23	2.1
MW-25*	May-05	7.03	23.60	4.00	4.34	141	>999	NM
	Sep-05	7.01	26.20	4.18	5.10	57	30	2.7
	Dec-05	6.63	24.70	5.28	1.35	417	0	3.3
	Mar-06	5.15	23.60	6.67	**	255	94	4.2
	Jun-06	**	23.50	3.93	5.74	376	228	2.5
	Oct-06	6.23	23.59	3.72	3.08	106	0	2.4
	Dec-06	6.74	23.93	4.45	3.75	429	0	2.8
	Mar-07	7.02	23.30	3.72	7.45	258	>999	2.4
	Jun-07	6.96	22.99	3.73	4.51	485	50	2.4
	Sep-07	6.72	27.04	3.52	3.59	195	15	2.3
MW-26	Mar-06	6.83	23.80	3.75	2.59	158	0	2.4
	Jun-06	**	24.10	2.32	4.83	305	229	1.5
	Oct-06	6.18	23.71	3.72	2.91	180	0	2.4
	Dec-06	NM	NM	NM	NM	NM	NM	NM
	Mar-07	6.99	23.50	3.76	7.14	422	>999	2.4
	Jun-07	7.01	23.62	3.51	4.82	517	41	2.5
	Sep-07	6.74	27.08	3.56	3.48	176	5	2.3
MW-27	Mar-06	6.83	21.90	3.28	2.44	142	0	2.1
	Jun-06	**	26.10	3.67	4.57	69	626	2.3
	Oct-06	6.20	22.24	3.32	2.84	155	0	2.1
	Dec-06	6.81	22.22	4.02	4.48	444	507	2.6
	Mar-07	6.97	21.90	3.25	6.96	181	83	2.1
	Jun-07	7.04	22.15	3.26	4.14	392	238	2.1
	Sep-07	6.76	24.23	3.41	3.40	198	22	2.2
Average		6.68	24.87	3.74	4.05	192	184	2.5

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	pH	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (ntu)	TDS (g/L)
INTERMEDIATE WELL								
MW-9	Jan-04	6.99	22.60	2.50	1.18	NM	NM	NM
	May-05	7.14	26.12	2.68	7.56	130	296	NM
	Sep-05	7.17	27.10	1.81	6.58	111	4	1.2
	Dec-05	6.88	26.60	2.45	2.49	123	33	1.6
	Mar-06	5.06	25.90	2.08	**	496	>999	1.3
	Jun-06	NM	NM	NM	NM	NM	NM	NM
	Oct-06	6.30	25.71	2.38	4.11	86	0	1.5
	Dec-06	6.81	25.46	2.96	5.09	233	0	1.9
	Jun-07	7.12	26.09	2.47	5.60	428	0	1.6
Average		6.68	25.70	2.42	4.66	230	56	1.5

NOTES: * = Wells installed in Apr 2005. ** = Instrument failure. NM = Not Measured.

⁽¹⁾ = Monitoring Well MW-4 was not sampled due to blockage in well casing.

⁽²⁾ = Monitoring Well MW-11 was not sampled due to detection of floating hydrocarbons in the well.

°C = degrees Celsius. uS = microsiemens (equivalent to umhos). mg/L = milligrams per liter.

mV = millivolts. Ntu = Nephelometric Turbidity Units.

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
SHALLOW WELLS				
MW-1	Aug 00	2300.0	ND	ND
	Oct 00	NS	NS	NS
	Sep 02	2000.0	ND	ND
	May 03	870.0	ND	ND
	Sep 03	2300.0	ND	ND
	Nov 03	-	-	-
	Jan 04	1700.0	ND	ND
	May 05	3500.0	ND	ND
	Sep 05	1700.0	ND	ND
	Dec 05	820.0	ND	ND
	Mar 06	420.0	ND	ND
	Jun 06	NS	NS	NS
	Oct 06	1100.0	ND	ND
	Dec 06	1300.0	ND	ND
	Jun 07	450.0	ND	ND
MW-2	Oct 00	3000.0	18.0	18.0
	Sep 02	3000.0	13.0	13.0
	May 03	1400.0	ND	ND
	Sep 03	1700.0	ND	ND
	Nov 03	-	-	-
	Jan 04	1700.0	ND	ND
	May 05	2050.0	17.0	9.7
	Dec 05	2900.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	1600.0	ND	ND
	Oct 06	1900.0	ND	ND
	Dec 06	1300.0	ND	ND
	Jun 07	1400.0	ND	ND
MW-3	Oct 00	98.0	ND	ND
	Sep 02	ND	ND	ND
	May 03	6.9	ND	ND
	Sep 03	12.0	ND	ND
	Nov 03	-	-	-
	Jan 04	6.7	ND	ND
	May 05	ND	ND	ND
	Dec 05	ND	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	ND	ND	ND
	Oct 06	ND	ND	ND
	Dec 06	1.2	ND	ND
	Jun 07	ND	ND	ND

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
MW-4	Oct 00	14.0	ND	ND
	Sep 02	25.0	ND	ND
	May 03	24.0	ND	ND
	Sep 03	100.0	ND	ND
	Nov 03	-	-	-
	Jan 04	220.0	ND	ND
	May 05	25.0	ND	ND
	Dec 05	15.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	27.0	ND	ND
	Oct 06	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾
	Dec 06	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾
	Jun 07	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾
MW-5	Oct 00	100.0	ND	NS ⁽¹⁾
	Sep 02	110.0	ND	ND
	May 03	240.0	ND	ND
	Sep 03	220.0	ND	ND
	Nov 03	-	-	-
	Jan 04	370.0	ND	ND
	May 05	146.0	ND	ND
	Dec 05	93.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	220.0	ND	ND
	Oct 06	67.0	ND	ND
	Dec 06	130.0	ND	ND
	Jun 07	550.0	ND	ND
MW-6	Oct 00	2200.0	13.0	8.1
	Sep 02	1000.0	41.0	14.0
	May 03	710.0	22.0	ND
	Sep 03	1300.0	ND	ND
	Nov 03	-	-	-
	Jan 04	2400.0	ND	ND
	May 05	2090.0	13.0	11.0
	Sep 05	890.0	13.0	23.0
	Dec 05	530.0	41.0	21.0
	Mar 06	NS	NS	NS
	Jun 06	1100.0	ND	ND
	Oct 06	1300.0	ND	ND
	Dec 06	810.0	9.9	8.9
	Jun 07	1300.0	ND	ND

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
MW-7	Sep 02	ND	ND	ND
	May 03	1.7	ND	ND
	Sep 03	2.0	ND	ND
	Nov 03	-	-	-
	Jan 04	11.0	ND	ND
	May 05	ND	ND	ND
	Sep 05	3.3	ND	ND
	Dec 05	1.2	ND	ND
	Mar 06	1.5	ND	ND
	Jun 06	2.2	ND	ND
	Oct 06	2.9	ND	ND
	Dec 06	2.1	ND	ND
	Jun 07	1.1	ND	ND
MW-8	Sep 02	5.4	ND	ND
	May 03	3.2	ND	ND
	Sep 03	3.7	ND	ND
	Nov 03	-	-	-
	Jan 04	4.7	ND	ND
	May 05	5.6	5.6	ND
	Dec 05	3.6	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	2.6	ND	ND
	Oct 06	3.4	ND	ND
	Dec 06	4.3	ND	ND
	Jun 07	2.8	ND	ND
MW-10	Sep 02	ND	ND	ND
	May 03	ND	ND	ND
	Sep 03	15.0	ND	ND
	Nov 03	-	-	-
	Jan 04	ND	ND	ND
	May 05	ND	ND	ND
	Sep 05	ND	ND	ND
	Dec 05	ND	ND	ND
	Mar 06	ND	ND	ND
	Jun 06	ND	ND	ND
	Oct 06	ND	ND	ND
	Dec 06	1.0	ND	ND
	Jun 07	ND	ND	ND
MW-11	Sep 02	ND	ND	ND
	May 03	ND	ND	ND
	Sep 03	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Nov 03	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Jan 04	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
MW-11	May 05	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Dec 05	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Mar 06	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Jun 06	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Oct 06	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Dec 06	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
	Jun 07	NS ⁽²⁾	NS ⁽²⁾	NS ⁽²⁾
MW-12	Sep 02	ND	ND	ND
	May 03	1.3	ND	ND
	Sep 03	14.0	ND	ND
	Nov 03	-	-	-
	Jan 04	6.1	ND	ND
	May 05	ND	ND	ND
	Sep 05	1.1	ND	ND
	Dec 05	1.2	ND	ND
	Mar 06	1.1	ND	ND
	Jun 06	NS	NS	NS
	Oct 06	ND	ND	ND
	Dec 06	1.4	ND	ND
	Jun 07	ND	ND	ND
MW-13	May 03	2100.0	ND	ND
	Sep 03	2800.0	ND	ND
	Nov 03	-	-	-
	Jan 04	2700.0	ND	ND
	May 05	5310.0	ND	ND
	Sep 05	2600.0	ND	ND
	Dec 05	3400.0	ND	ND
	Mar 06	3700.0	ND	ND
	Jun 06	2900.0	ND	ND
	Oct 06	2800.0	ND	ND
	Dec 06	3200.0	ND	ND
	Mar 07	2500.0	ND	ND
	Jun 07	3700.0	ND	ND
MW-14	Sep 07	2000.0	ND	ND
	Nov 03	1900.0	ND	ND
	Jan 04	2100.0	ND	ND
	May 05	2920.0	5.5	ND
	Dec 05	3400.0	ND	ND
	Mar 06	2500.0	ND	ND
	Jun 06	1800.0	ND	ND
	Oct 06	1900.0	ND	ND
	Dec 06	3500.0	ND	ND
	Mar 07	1900.0	ND	ND

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
MW-14	Jun 07	1700.0	ND	ND
	Sep 07	650.0	ND	ND
MW-15	Nov 03	5.2	ND	ND
	Jan 04	2.7	ND	ND
	May 05	ND	ND	ND
	Sep 05	3.6	ND	ND
	Dec 05	5.0	ND	ND
	Mar 06	4.5	ND	ND
	Jun 06	4.4	ND	ND
	Oct 06	3.3	ND	ND
	Dec 06	3.7	ND	ND
	Jun 07	3.0	ND	ND
	Nov 03	ND	ND	ND
MW-16	Jan 04	ND	ND	ND
	May 05	ND	ND	ND
	Sep 05	ND	ND	ND
	Dec 05	ND	ND	ND
	Mar 06	ND	ND	ND
	Jun 06	ND	ND	ND
	Oct 06	ND	ND	ND
	Dec 06	ND	ND	ND
	Jun 07	ND	ND	ND
	May 05	520.0	ND	ND
MW-17	Dec 05	470.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	NS	NS	NS
	Oct 06	1300.0	ND	ND
	Dec 06	710.0	ND	ND
	Mar 07	440.0	ND	ND
	Jun 07	300.0	ND	ND
	Sep 07	380.0	ND	ND
	May 05	1600.0	ND	ND
MW-18	Sep 05	1700.0	ND	ND
	Dec 05	2400.0	ND	ND
	Mar 06	1700.0	ND	ND
	Jun 06	1600.0	ND	ND
	Oct 06	2100.0	ND	ND
	Dec 06	1400.0	ND	ND
	Mar 07	1400.0	ND	ND
	Jun 07	1300.0	ND	ND
	Sep 07	930.0	ND	ND

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
MW-19	Nov 03	1100.0	ND	ND
	Jan 04	1200.0	ND	ND
	May 05	873.0	ND	ND
	Dec 05	1300.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	910.0	ND	ND
	Oct 06	840.0	ND	ND
	Dec 06	1200.0	ND	ND
	Mar 07	890.0	ND	ND
	Jun 07	870.0	ND	ND
	Sep 07	510.0	ND	ND
MW-20	Nov 03	1800.0	ND	ND
	Jan 04	290.0	2.8	ND
	May 05	1460.0	ND	ND
	Dec 05	1800.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	2100.0	ND	ND
	Oct 06	2000.0	ND	ND
	Dec 06	2500.0	ND	ND
	Mar 07	1500.0	ND	ND
	Jun 07	1300.0	ND	ND
	Sep 07	730.0	ND	ND
MW-21	Nov 03	51.0	ND	ND
	Jan 04	55.0	ND	ND
	May 05	30.0	ND	ND
	Sep 05	19.0	2.4	1.5
	Dec 05	16.0	1.8	1.3
	Mar 06	43.0	ND	ND
	Jun 06	32.0	ND	ND
	Oct 06	23.0	ND	ND
	Dec 06	39.0	ND	ND
	Jun 07	28.0	ND	ND
MW-22	May 05	ND	ND	ND
	Sep 05	ND	ND	ND
	Dec 05	1.0	ND	ND
	Mar 06	ND	ND	ND
	Jun 06	ND	ND	ND
	Oct 06	ND	ND	ND
	Dec 06	ND	ND	ND
	Jun 07	ND	ND	ND
MW-23	May 05	1430.0	ND	ND
	Dec 05	1900.0	ND	ND
	Mar 06	NS	NS	NS
	Jun 06	1500.0	ND	ND

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
MW-23	Oct 06	2000.0	ND	ND
	Dec 06	2100.0	ND	ND
	Mar 07	2100.0	ND	ND
	Jun 07	1300.0	ND	ND
	Sep 07	750.0	ND	ND
MW-24	May 05	ND	ND	ND
	Sep 05	4.3	ND	ND
	Dec 05	6.7	ND	ND
	Mar 06	6.5	ND	ND
	Jun 06	5.6	ND	ND
	Oct 06	2.6	ND	ND
	Dec 06	2.6	ND	ND
	Jun 07	1.0	ND	ND
MW-25	May 05	993.0	ND	ND
	Sep 05	920.0	ND	ND
	Dec 05	1000.0	ND	ND
	Mar 06	970.0	ND	ND
	Jun 06	960.0	ND	ND
	Oct 06	1300.0	ND	ND
	Dec 06	1200.0	ND	ND
	Mar 07	670.0	ND	ND
	Jun 07	960.0	ND	ND
	Sep 07	560.0	ND	ND
MW-26	Mar 06	730.0	ND	ND
	Jun 06	770.0	ND	ND
	Oct 06	1100.0	ND	ND
	Dec 06	NS	NS	NS
	Mar 07	790.0	ND	ND
	Jun 07	960.0	ND	ND
	Sep 07	620.0	ND	ND
MW-27	Mar 06	220.0	ND	ND
	Jun 06	350.0	ND	ND
	Oct 06	380.0	ND	ND
	Dec 06	380.0	ND	ND
	Mar 07	160.0	ND	ND
	Jun 07	340.0	ND	ND
	Sep 07	320.0	ND	ND

TABLE 3
SELECTED VOC CONCENTRATIONS IN MONITORING WELLS
Maryland Square Shopping Center

Well ID	Sample Date	Concentration (in ug/L)		
		perchloroethylene (PCE)	trichloroethene (TCE)	cis-1,2-Dichlorethene
INTERMEDIATE WELL				
MW-9	Sep 02	670.0	ND	ND
	May 03	59.0	ND	ND
	Sep 03	9.2	ND	ND
	Nov 03	-	-	-
	Jan 04	10.0	ND	ND
	May 05	353.0	ND	ND
	Sep 05	64.0	ND	ND
	Dec 05	190.0	ND	ND
	Mar 06	ND	ND	ND
	Jun 06	NS	NS	NS
	Oct 06	160.0	ND	ND
	Dec 06	45.0	ND	ND
	Jun 07	170.0	ND	ND

NOTES: ND = Non-Detect. NS = Not Sampled. ' - ' cells indicate no data available.

⁽¹⁾ = Monitoring Well MW-4 was not sampled due to blockage in well casing.

⁽²⁾ = Monitoring Well MW-11 was not sampled due to detection of floating hydrocarbons in the well.

ug/L = micrograms per liter.

PCE is perchloroethylene (tetrachloroethene). The Maximum Contaminant Level for PCE in drinking water is 5 ug/L.

TABLE 4
SUMMARY OF OTHER ANALYTICAL DATA
Maryland Square Shopping Center

Well ID	Sample Date	Concentration						
		(in mg/L)						
		Total Iron	Dissolved Manganese	Chloride	Nitrate as N	Sulfate	Total Alkalinity	Total Organic Carbon
SHALLOW WELLS								
MW-1	May 05	ND	ND	180	8.9	1,613	ND	5.1
	Sep 05	3.7	0.057	180	8.8	1,800	230	6.0
	Dec 05	5.0	0.027	200	8.1	1,800	190	1.7
	Mar 06	24.0	0.230	170	8.4	1,600	250	3.8
	Jun 06	NS	NS	NS	NS	NS	NS	NS
	Oct 06	5.1	0.044	210	8.4	1,900	220	2.8
	Dec 06	20.0	0.240	NA	7.3	NA	NA	2.4
	Jun 07	16.0	0.140	180	7.3	1,700	210	2.3
MW-6	May 05	ND	0.040	200	10.5	1,615	ND	6.0
MW-12	May 05	ND	ND	270	23.9	1,618	16	4.8
MW-13	May 05	ND	ND	170	6.9	1,562	ND	1.7
	Sep 05	19.0	0.690	170	6.1	1,700	260	3.6
	Dec 05	7.0	0.110	190	5.9	1,600	220	1.6
	Mar 06	7.7	0.200	240	7.0	1,500	220	1.7
	Jun 06	15.0	0.490	190	7.9	1,600	230	1.7
	Oct 06	20.0	0.480	190	6.2	1,700	220	2.7
	Dec 06	12.0	0.330	200	6.1	1,700	210	2.1
	Mar 07	9.7	0.270	220	5.9	1,500	210	1.7
	Jun 07	19.0	0.560	180	6.1	1,600	220	1.4
	Sep 07	1.6	ND	210	6.2	1,700	220	1.3
	Sep 05	0.9	0.020	160	5.4	1,800	240	3.3
MW-18	Dec 05	3.7	0.015	180	4.7	1,600	200	1.4
	Mar 06	2.6	0.012	150	5.4	1,500	220	1.4
	Jun 06	1.9	ND	200	5.8	1,900	220	1.4
	Oct 06	2.1	0.011	180	5.2	1,900	210	1.7
	Dec 06	2.8	0.019	180	5.0	1,600	210	1.6
	Mar 07	38.0	0.480	160	4.7	1,500	220	1.5
	Jun 07	1.8	ND	150	5.1	1,600	210	1.2
	Sep 07	2.0	ND	190	5.8	1,700	210	1.2

TABLE 4
SUMMARY OF OTHER ANALYTICAL DATA
Maryland Square Shopping Center


Well ID	Sample Date	Concentration						
		(in mg/L)						
		Total Iron	Dissolved Manganese	Chloride	Nitrate as N	Sulfate	Total Alkalinity	Total Organic Carbon
MW-19	May 05	ND	ND	170	5.9	1,599	19	2.7
MW-23	May 05	ND	ND	200	7.5	1,596	ND	1.8
MW-25	May 05	ND	ND	180	5.9	1,616	ND	1.7
	Sep 05	1.2	0.020	170	4.5	1,900	300	4.4
	Dec 05	3.0	ND	190	4.5	1,900	230	1.3
	Mar 06	3.4	0.018	160	5.2	1,600	240	2.0
	Jun 06	2.1	0.006	220	5.7	1,900	230	1.9
	Oct 06	3.2	0.020	200	5.2	1,900	280	2.0
	Dec 06	2.6	0.007	200	4.8	2,000	260	1.7
	Mar 07	6.0	0.059	190	4.5	1,700	240	1.7
	Jun 07	1.8	0.005	170	4.7	1,800	240	1.4
	Sep 07	1.6	0.010	210	5.1	1,800	240	1.2
Average		8.0	0.159	170	6.7	1,698	216	2.3
INTERMEDIATE WELL								
MW-9	May 05	ND	ND	110	5.2	1,094	ND	2.1

NOTES: ND = Non-Detect. NA = Not Analyzed.
mg/L is milligrams per liter.
The shallow wells are approximately 25 ft. deep; The intermediate well is 30-40 ft. deep.

FIGURES



Source: Clark County Assessors Web Site

Scale:  200 feet



SITE LOCATION MAP

Al Phillips The Cleaner
 Quarterly Groundwater Sampling
 Maryland Square Shopping Center
 3661 South Maryland Parkway
 Las Vegas, Nevada

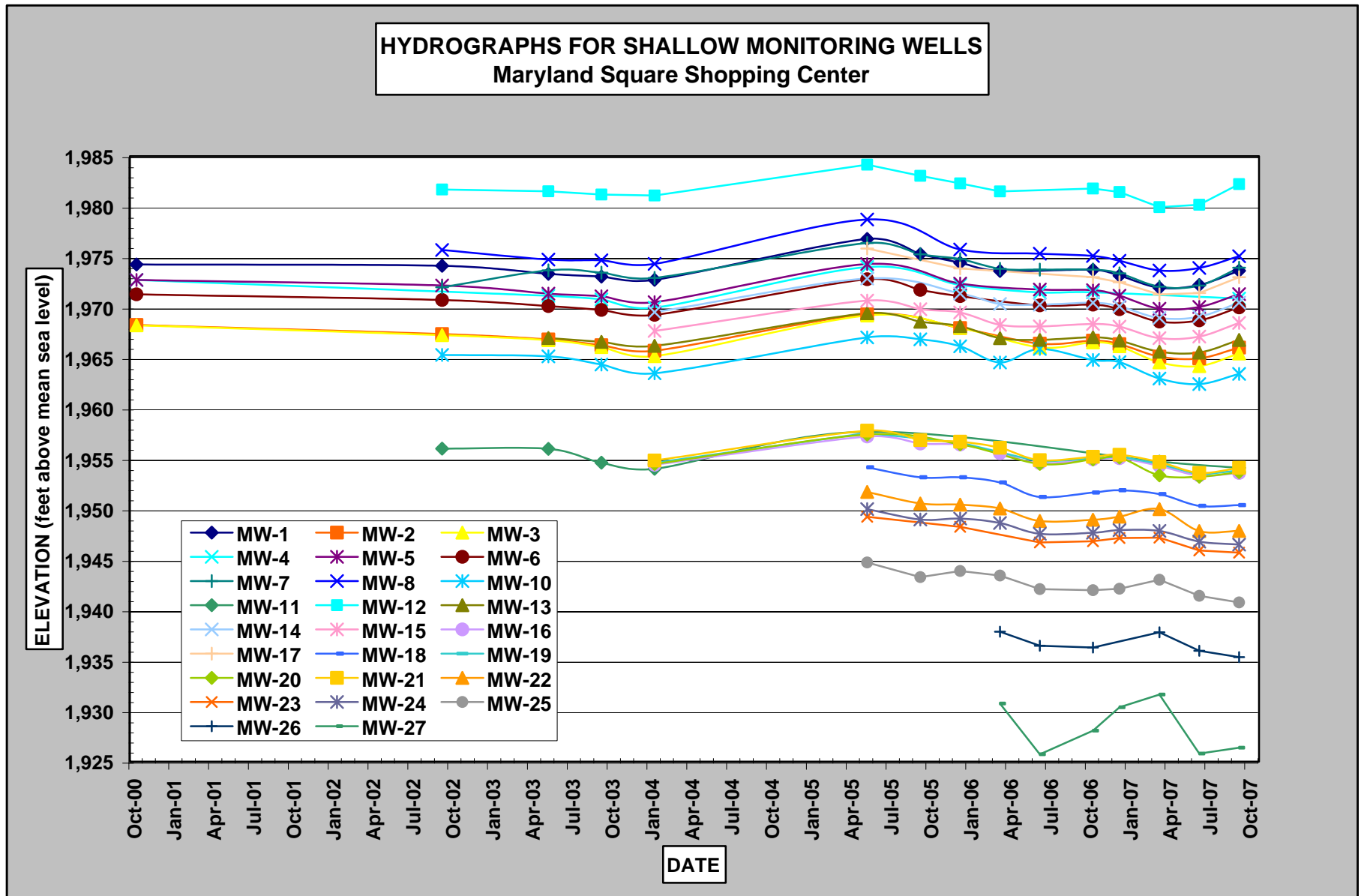


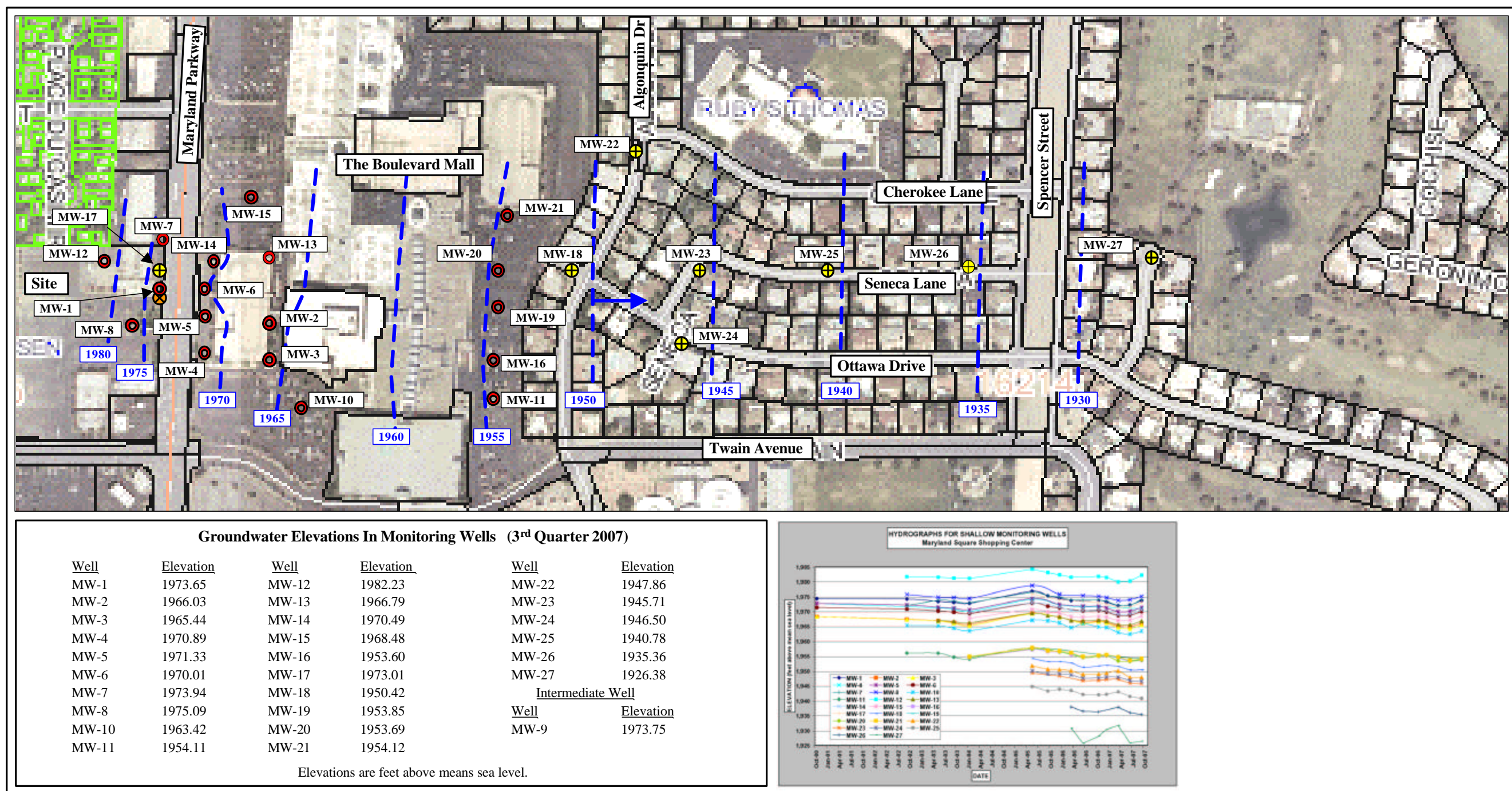
3rd Quarter 2007
 Job No. 26698724

MS 3rd Qtr 07 Fig 1.ppt

FIGURE 1

FIGURE 2





Source: Clark County Assessors Web Site
Scale: 0 Feet 200 Feet

Legend:

- Approximate Location of Shallow Monitoring Well Installed by URS.
- Approximate Location of Intermediate Monitoring Well Installed by URS.
- Approximate Location of Monitoring Well Installed by Converse.
- Groundwater Elevation Contour Line.
- Approximate Direction of Groundwater Flow.

URS



GROUNDWATER ELEVATION CONTOURS FOR SHALLOW WELLS

3rd Quarter 2007

Al Phillips The Cleaner
Quarterly Groundwater Sampling
Maryland Square Shopping Center
3661 South Maryland Parkway
Las Vegas, Nevada

3rd Quarter 2007
Job No. 26698724
MS 3rd Qtr 07 Fig 3.ppt

FIGURE 3

FIGURE 4A

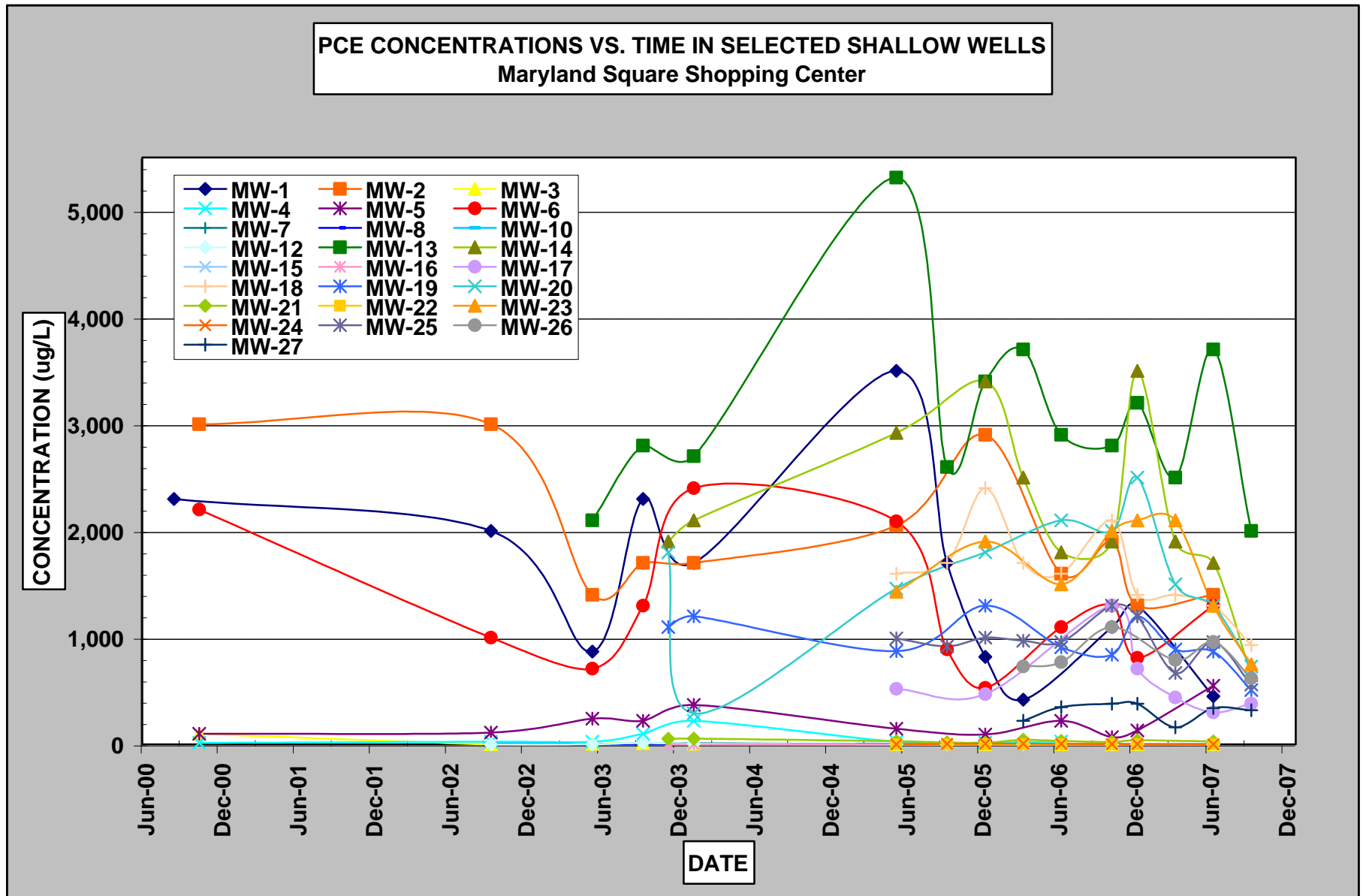
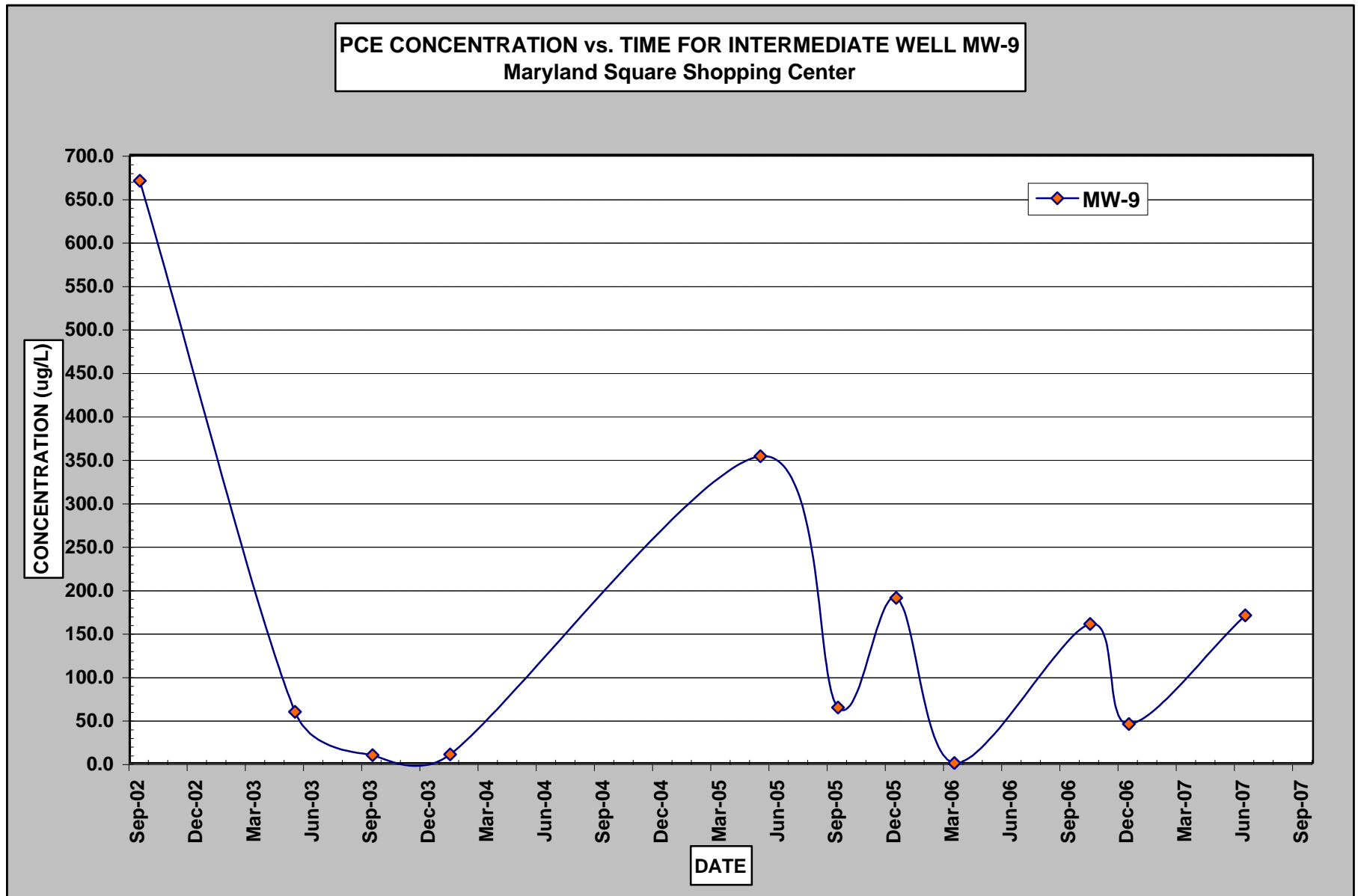
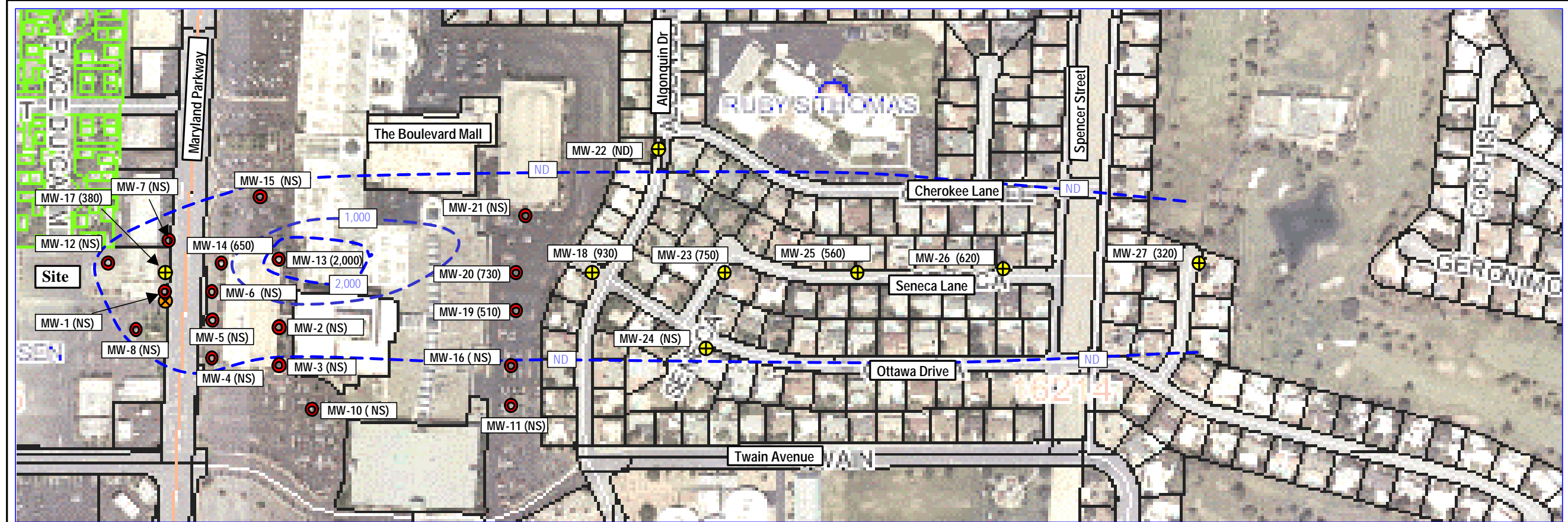


FIGURE 4B

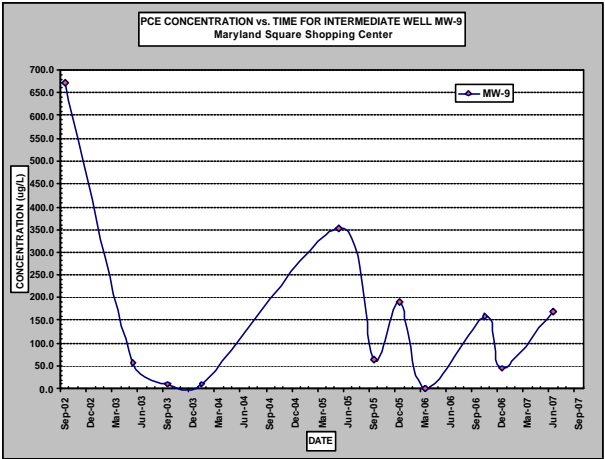
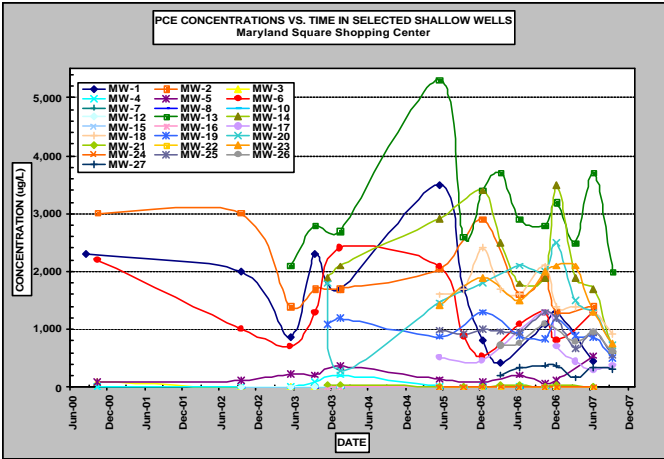


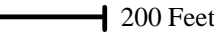


Concentrations of PCE in Monitoring Wells (3rd Quarter 2007)





Well	Concentration	Well	Concentration	Well	Concentration
MW-1	NS	MW-12	NS	MW-22	NS
MW-2	NS	MW-13	2,000	MW-23	750
MW-3	NS	MW-14	650	MW-24	NS
MW-4	NS	MW-15	NS	MW-25	560
MW-5	NS	MW-16	NS	MW-26	620
MW-6	NS	MW-17	380	MW-27	320
MW-7	NS	MW-18	930	Intermediate Well	
MW-8	NS	MW-19	510	Well	Concentration
MW-10	NS	MW-20	730	MW-9	NS
MW-11	NS	MW-21	NS		

Concentrations are in micrograms per liter (ug/L). Federal MCL for PCE in drinking water is 5 ug/L. NS = Not Sampled. ND = Non-Detect.



Source: Clark County Assessors Web Site
Scale: 0 Feet  200 Feet

Legend:

-  Approximate Location of Shallow Monitoring Well Installed by URS.
-  Approximate Location of Intermediate Monitoring Well Installed by URS.
-  Approximate Location of Monitoring Well Installed by Converse.
- (25) Concentration of PCE Detected in Groundwater Form Monitoring Well (in ug/L). NS = Not Sampled. ND = Non-Detect.
-  Approximate Concentration Contour of PCE in Groundwater.



SHALLOW MONITORING WELL PCE CONCENTRATIONS AND CONTOURS

3rd Quarter 2007

Al Phillips The Cleaner
Quarterly Groundwater Sampling
Maryland Square Shopping Center
3661 South Maryland Parkway
Las Vegas, Nevada

3rd Quarter 2007
Job No. 26698724
MS 3rd Qtr 07 Fig 5.ppt

FIGURE 5

APPENDIX A
Groundwater Sample Collection Logs

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUAREJob Number: 26698724Sample Collected By: Holly Woodward (HW)Date & Time Collected: 9/17/07 1447 HWSample Number: MW - 17Screen Depth: 15 - 30 ftDepth to Well Bottom: 30.22 ft**I. EQUIPMENT**Purging Method/Equipment: LF / TSampling Equipment: LF / T**II. PURGING INFORMATION**Depth to Water (Static) 17.91 (feet) Depth to Water (Pumping) 18.03 (feet)Pump Rate 275 (Liters/minute) Pump Placement 16 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	275	18.69	6.41	3.52	56.8	6.31	28.09	2.2	228
3			6.69	3.44	10.8	5.01	26.04	2.2	208
4			6.72	3.43	0.0	4.92	26.67	2.2	201
5			6.72	3.44	0.0	4.94	26.65	2.2	201
6		18.32	6.73	3.44	0.0	4.95	26.66	2.2	199
9			6.74	3.44	0.0	4.95	26.66	2.2	198
12			6.73	3.44	0.0	4.96	26.68	2.2	198
15	"	18.12	6.74	3.44	0.0	4.95	26.69	2.2	198
18			6.74	3.44	0.0	4.95	26.72	2.2	197
25	↓	18.03	6.74	3.44	0.0	4.95	26.74	2.2	197

Color/composition of water at purging start: Clear At end of purging: ClearTotal Volume Purged: 6.85 L Total Purge Time: 25 min Purged Dry (Y/N) N**III. SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: * Before started taking measurements, Water level dropped / pump 2 too high a speed. Stabilized, Soft bottom.

Notes: LF = Low flow purging method - sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUAREJob Number: 26698724Sample Collected By: Molly WoodwardDate & Time Collected: 9/17/07 1559Sample Number: MW - 27Screen Depth: 10 - 35 ftDepth to Well Bottom: 35.3 ft.**I. EQUIPMENT**Purging Method/Equipment: LF/TSampling Equipment: LF/T**II. PURGING INFORMATION**Depth to Water (Static) 17.85 (feet) Depth to Water (Pumping) 17.92 (feet)Pump Rate 400 (Liters/minute) Pump Placement 26 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	400	17.95	7.04	3.20	54.0	7.91	23.44	2.1	209
1		↓	6.84	3.28	63.5	4.55	23.24	2.2	206
2		↓	6.81	3.37	45.2	3.76	23.58	2.2	205
4		↓	6.79	3.36	27.2	3.64	24.03	2.2	204
6		17.94	6.78	3.37	19.8	3.58	24.20	2.2	203
8			6.77	3.40	20.8	3.54	24.50	2.2	200
10		17.93	6.77	3.41	18.4	3.52	24.38	2.2	200
12			6.77	3.42	18.6	3.49	24.31	2.2	200
13			6.76	3.42	17.6	3.47	24.25	2.2	199
15			6.76	3.42	15.7	3.45	24.25	2.2	199
16			6.76	3.41	18.1	3.42	24.24	2.2	198
18	↓	17.92	6.76	3.41	22.3	3.40	24.23	2.2	198

Color/composition of water at purging start: Clear At end of purging: clearTotal Volume Purged: 7.2L Total Purge Time: 18 min Purged Dry (Y/N) N**III. SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom

Notes: LF = Low flow purging method sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal-ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
 Job Number: 26698724
 Sample Collected By: Holly Woodward
 Date & Time Collected: 9/19/07 1105

Sample Number: MW - 19
 Screen Depth: 19 - 35 ft
 Depth to Well Bottom: 31.33 ft

I. EQUIPMENT

Purging Method/Equipment: LF/T
 Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 26.41 (feet) Depth to Water (Pumping) 26.49 (feet)
 Pump Rate 250 - 500 (Liters/minute) Pump Placement 29 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	1580	26.88	7.02	3.26	-5.0	8.12	25.88	2.2	202
3	1400		6.86	3.45	5270	6.14	24.91	2.2	203
4	↓		6.84	3.45	495.0	6.09	25.11	2.2	203
5	↓		6.83	3.44	714.0	5.69	25.34	2.2	203
6	1400	26.71	6.83	3.46	733.0	5.30	24.68	2.2	203
7			6.82	3.46	-5.0	5.91	24.79	2.2	203
8	1300		6.82	3.47	998.0	5.23	25.23	2.2	203
9	↓		6.83	3.43	672.0	5.11	25.91	2.2	203
10	↓		6.83	3.38	627.0	6.74	26.08	2.2	202
11	↓		6.83	3.40	539.0	5.40	26.25	2.2	202
12	250		6.83	3.41	511.0	5.26	26.55	2.2	202
15		26.59	6.83	3.42	472.0	5.23	26.80	2.2	202
17	↓		6.83	3.42	443.0	5.18	27.01	2.2	202
18	↓		6.83	3.41	386.0	5.13	27.28	2.2	202
19	↓	26.49	6.84	3.40	352.0	5.09	27.36	2.2	201

Color/composition of water at purging start: sl. cloudy At end of purging: sl. cloudy
 Total Volume Purged: 6.2 L Total Purge Time: 19 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: turbidity ↑ Start Use control before flowcell/turn valve off
Pump slower next time. soft bottom

Notes: LF = Low flow purging method. sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
 Job Number: 26698724
 Sample Collected By: Holly Woodman
 Date & Time Collected: 7-28-07 1411

Sample Number: MW - 26
 Screen Depth: 10 - 35 ft
 Depth to Well Bottom: PHW 35.19 ft.

I. EQUIPMENT

Purging Method/Equipment: LF/T
 Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 18.12 (feet) Depth to Water (Pumping) 18.14 (feet)
 Pump Rate 300 (Liters/minute) Pump Placement 26.5 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	400	18.12	6.90	3.55	26.9	4.56	25.03	2.3	175
1	"		6.79	3.55	6.4	3.82	25.62	2.3	177
3	350		6.77	3.54	5.9	3.73	25.94	2.3	177
5	↓		6.76	3.54	5.6	3.69	26.13	2.3	177
7	↓		6.76	3.54	5.7	3.67	26.21	2.3	177
9	↓		6.75	3.54	5.3	3.64	26.37	2.3	177
10	↓		6.75	3.54	5.2	3.62	26.49	2.3	177
12	300		6.75	3.55	4.9	3.58	26.55	2.3	177
14	↓	18.15	6.74	3.57	4.4	3.52	26.81	2.3	176
16	↓		6.74	3.57	4.3	3.51	26.84	2.3	176
17	↓		6.74	3.57	4.3	3.50	26.92	2.3	176
18	↓		6.74	3.57	4.4	3.50	27.02	2.3	176
19	↓	18.14	6.74	3.56	4.5	3.48	27.08	2.3	176

Color/composition of water at purging start: Clear At end of purging: Clear
 Total Volume Purged: 6.3L Total Purge Time: 19 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Firm bottom

Notes: LF = Low flow purging method sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOG

Name: AL PHILLIPS - MARYLAND SQUARE
 Number: 26698724
 Sample Collected By: Holly Woodward
 Date & Time Collected: 9-18-07 1522

Sample Number: MW - 25
 Screen Depth: 5 - 25 ft
 Depth to Well Bottom: 26.02 ft

I. EQUIPMENT

Purging Method/Equipment: LF/T
 Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 19.96 (feet) Depth to Water (Pumping) 19.97 (feet)
 Pump Rate 350 (Liters/minute) Pump Placement 22 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.500		6.98	3.18	40.8	6.19	26.60	2.1	214
1		19.96	6.72	3.50	27.1	3.97	25.40	2.2	209
2	.500		6.72	3.50	27.6	3.90	25.45	2.2	207
3			6.72	3.51	26.3	3.74	25.52	2.2	203
4	.350	19.96	6.72	3.50	21.6	3.70	25.70	2.2	201
6			6.72	3.52	18.4	3.66	26.14	2.3	199
7			6.72	3.52	17.2	3.64	26.72	2.3	197
9		19.96	6.72	3.52	16.7	3.62	26.84	2.3	196
11			6.72	3.52	15.9	3.62	26.72	2.3	196
14			6.72	3.52	15.5	3.61	26.97	2.3	196
16			6.72	3.52	15.2	3.59	27.02	2.3	195
17		19.97	6.72	3.52	15.2	3.59	27.04	2.3	195

Color/composition of water at purging start: Clear At end of purging: Clear
 Total Volume Purged: 6.6 L Total Purge Time: 17 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO ₃	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H ₃ PO ₄	TOC (415.1)

Comments:

Notes: LF = Low flow purging method sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

URS Corporation

811 Grier Drive
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 Fax: (702) 492-9149

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUAREJob Number: 26698724Sample Collected By: Holly WoodwardDate & Time Collected: 9-19-07 1027Sample Number: MW - 23Screen Depth: 5 - 25 ftDepth to Well Bottom: 25.32 ft**I. EQUIPMENT**Purging Method/Equipment: T / LFSampling Equipment: T / LF**II. PURGING INFORMATION**Depth to Water (Static) 16.61 (feet)Depth to Water (Pumping) 16.61 (feet)Pump Rate 1,400 (Liters/minute)Pump Placement 20 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	500	16.66	6.88	3.29	15.4	4.74	24.53	2.1	216
1	400		6.82	3.30	4.8	4.02	25.12	2.1	212
2	150	16.66	6.82	3.30	5.2	4.10	25.14	2.1	211
3	400		6.82	3.31	3.4	3.94	25.43	2.1	209
5		16.61	6.82	3.31	3.3	3.99	25.42	2.1	209
6			6.81	3.31	3.3	3.97	25.40	2.1	208
8			6.81	3.31	2.7	3.92	25.41	2.1	208
10	1,400		6.81	3.31	2.5	3.86	25.52	2.1	207
11			6.81	3.31	2.0	3.87	25.62	2.1	207
12			6.81	3.31	1.9	3.84	25.66	2.1	206
13			6.81	3.31	2.5	3.82	25.69	2.1	205
15	400	16.61	6.81	3.31	1.8	3.80	25.75	2.1	205
16	↓		6.81	3.31	1.4	3.79	25.80	2.1	204
17	↓	16.61	6.81	3.31	1.4	3.78	25.84	2.1	204

Color/composition of water at purging start: ClearAt end of purging: ClearTotal Volume Purged: 7.05 LTotal Purge Time: 15 minPurged Dry (Y/N) N**III.****SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Able to adj. flow/control with adjuster before cell. Firm bottom.

Notes: LF = Low flow purging method - sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUAREJob Number: 26698724Sample Collected By: Holly WoodwardDate & Time Collected: 9/19/07 307Sample Number: MW - 18Screen Depth: 5 - 25 ftDepth to Well Bottom: 20.38 ft.**I. EQUIPMENT**Purging Method/Equipment: LF/ITSampling Equipment: LF/IT**II. PURGING INFORMATION**Depth to Water (Static) 12.45 (feet) Depth to Water (Pumping) 12.45 (feet)Pump Rate 14 (Liters/minute) Pump Placement 16 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	400	12.49	7.26	1.86	42.1	7.75	30.59	1.8	228
1	↓		6.88	3.27	19.2	7.69	29.23	2.1	222
2	↓		6.85	3.28	18.8	7.11	29.19	2.1	220
3	↓		6.83	3.28	17.6	6.54	29.15	2.1	219
4	↓		6.82	3.29	18.3	6.27	29.04	2.1	216
5	400	12.45	6.82	3.29	18.9	6.17	29.04	2.1	216
6	↓		6.81	3.29	19.9	5.96	29.00	2.1	214
7	↓		6.81	3.28	22.6	5.82	29.06	2.1	213
8	↓		6.81	3.28	22.2	5.79	29.11	2.1	213
9	↓		6.81	3.27	22.4	5.70	29.17	2.1	212
11	↓		6.81	3.27	21.9	5.60	29.25	2.1	212
12	↓		6.81	3.27	22.3	5.53	29.27	2.1	211
13	↓		6.81	3.27	22.1	5.50	29.27	2.1	211
14	↓		6.81	3.28	22.0	5.47	29.28	2.1	210
16	↓	12.45	6.81	3.28	21.8	5.43	29.30	2.1	210

Color/composition of water at purging start: Clear At end of purging: ClearTotal Volume Purged: 6.4L Total Purge Time: 16 min. Purged Dry (Y/N) N**III. SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO ₃	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H ₃ PO ₄	TOC (415.1)

Comments: Firm Station

Notes: LF = Low flow purging method sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUAREJob Number: 26698724Sample Collected By: Holly WoodwardDate & Time Collected: 9-19-07 1412Sample Number: MW - 20Screen Depth: 19 - 35 ftDepth to Well Bottom: 32.91 ft**I. EQUIPMENT**Purging Method/Equipment: LF/TSampling Equipment: LF/T**II. PURGING INFORMATION**Depth to Water (Static) 26.30 (feet) Depth to Water (Pumping) 26.24 (feet)Pump Rate 26.24 (Liters/minute) Pump Placement 30 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	1400	26.30	6.85	3.20	-5.0	7.27	28.00	2.1	235
1	↓		6.82	3.23	-5.0	5.89	28.35	2.1	230
2	↓		6.82	3.26	-5.0	5.25	28.91	2.1	229
3	400		6.81	3.23	-5.0	4.91	29.70	2.1	227
4	200	26.24	6.82	3.23	-5.0	4.79	29.61	2.1	225
6	400		6.82	3.23	-5.0	4.75	29.80	2.1	222
8	400		6.82	3.23	408.0	4.24	32.00	2.1	219
10	300		6.83	3.25	532.0	4.57	30.85	2.1	216
12	300	26.24	6.83	3.27	375.0	4.55	31.20	2.1	216
14	300		6.82	3.28	314.0	4.50	31.54	2.1	215
16	300		6.83	3.27	297.0	4.51	31.72	2.1	213
17	↑		6.83	3.26	333.0	4.45	32.05	2.1	212
18	↑		6.83	3.27	261.0	4.40	32.42	2.1	211
19	↑		6.83	3.26	231.0	4.41	32.48	2.1	210
20	↓	26.24	6.83	3.26	269.0	4.43	32.42	2.1	209
21	↓		6.83	3.26	248.0	4.42	32.45	2.1	207

Color/composition of water at purging start: sl. cloudy At end of purging: clearTotal Volume Purged: 7.3 L Total Purge Time: 1 min Purged Dry (Y/N) N**III. SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: * Place pump higher / pump slower. Firm bottom

Notes: LF = Low flow purging method. sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUAREJob Number: 26698724Sample Collected By: Holly WoodwardDate & Time Collected: 9/19/07 1505Sample Number: MW - 14Screen Depth: 15 - 40 ftDepth to Well Bottom: 30.43 ft**I. EQUIPMENT**Purging Method/Equipment: LF ITSampling Equipment: LF IT**II. PURGING INFORMATION**Depth to Water (Static) 17.40 (feet) Depth to Water (Pumping) 17.40 (feet)Pump Rate 1300 (Liters/minute) Pump Placement 24 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	1300	17.58	7.05	2.93	238.0	7.90	29.51	2.0	244
1			6.79	3.30	216.0	6.27	29.67	2.1	242
2	1400	17.46	6.75	3.44	211.0	4.51	30.20	2.2	236
3			6.76	3.45	214.0	4.36	30.20	2.2	235
4			6.75	3.45	189.0	4.33	30.23	2.2	234
6	1400		6.76	3.46	166.0	4.25	30.29	2.2	233
7		17.40	6.76	3.46	148.0	4.22	30.46	2.2	230
8			6.75	3.39	154.0	3.96	32.35	2.2	228
9	1300		6.76	3.43	130.0	3.99	32.58	2.2	227
10			6.76	3.47	117.0	4.15	32.41	2.2	225
12			6.76	3.48	106.0	4.17	32.43	2.2	224
13			6.76	3.48	102.0	4.15	32.43	2.2	224
14			6.77	3.48	94.7	4.12	32.41	2.2	223
16			6.77	3.49	93.5	4.13	32.36	2.2	222
18			6.77	3.49	102.0	4.15	32.21	2.2	221
19		17.40	6.77	3.49	103.0	4.15	32.17	2.2	220

Color/composition of water at purging start: clear At end of purging: clearTotal Volume Purged: 67L Total Purge Time: 19 min Purged Dry (Y/N) N**III. SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: 5-1' pump higher. Start slower.

Notes: LF = Low flow purging method sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOGProject Name: AL PHILLIPS - MARYLAND SQUARESample Number: MW - 13Job Number: 26698724Screen Depth: 9 - 29 ftSample Collected By: Holly WoodwardDepth to Well Bottom: 25.00 ftDate & Time Collected: 9/19/07 1551**I. EQUIPMENT**Purging Method/Equipment: LF/TSampling Equipment: LF/T**II. PURGING INFORMATION**Depth to Water (Static) 17.41 (feet) Depth to Water (Pumping) 17.5 (feet)Pump Rate 400 (Liters/minute) Pump Placement 21 (feet)

Time (min)	Pumping Rates (L/min)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	400	17.41	6.97	3.25	237.0	8.60	27.90	2.1	241
1			6.76	3.31	120.0	5.67	27.36	2.1	237
2			6.75	3.31	96.3	5.41	27.41	2.1	236
3			6.74	3.31	48.8	5.23	27.47	2.1	235
4	400	17.50	6.73	3.31	26.7	5.16	27.48	2.1	234
5			6.73	3.31	16.7	5.10	27.56	2.1	233
6			6.73	3.31	9.3	5.01	27.63	2.1	232
7			6.73	3.31	9.9	5.01	27.65	2.1	232
8	400	17.50	6.73	3.31	6.9	4.93	27.70	2.1	231
9			6.73	3.31	6.0	4.89	27.72	2.1	231
10			6.74	3.31	3.9	4.79	27.77	2.1	229
11			6.74	3.31	4.4	4.79	27.78	2.1	229
12	400	17.50	6.74	3.31	3.7	4.76	27.78	2.1	228
13			6.74	3.31	3.5	4.75	27.78	2.1	228
14			6.74	3.31	4.1	4.75	27.76	2.1	228
16	400	17.50	6.74	3.31	3.3	4.74	27.72	2.1	228

Color/composition of water at purging start: Clear At end of purging: ClearTotal Volume Purged: 6.4L Total Purge Time: 16 min Purged Dry (Y/N) N**III. SAMPLE PACKAGING**

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO ₃	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl ⁻ , NO ₃ ⁻ , SO ₄ ²⁻ (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H ₃ PO ₄	TOC (415.1)

Comments: Soft bottom

Notes: LF = Low flow purging method sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equipment.

3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal ft: 2" = 0.16, 4" = 0.65) * 3

GROUNDWATER SAMPLE COLLECTION LOG DEPTH TO WATER LEVEL MEASUREMENTS

Project Name: AL PHILLIPS - MARYLAND SQUARE

Job Number: 26698724

Collected By: Holly Woodward

Date Collected	Time Collected	Well Number	Depth to Well Bottom	Depth to Water	Comments
9-17-07	1329	MW1	25.81	18.39	S
	1353	MW9	49.94	18.51	S
	1458	MW12	33.61	14.27	S
	1506	MW8	30.26	19.14	F time
	1518	MW7	30.04	16.31	S 1512 HW
	1722	MW21	33.69	25.44	S 1722 HW
9-18-07	1650	MW24	20.42	14.24	F
"	1659	MW22	35.04	26.90	F
"	1714	MW16	34.03	27.03	F
9-21-07	0952	MW10	30.41	20.38	S Black on inside of casing not much on probe
	1007	MW2	29.61	17.94	S
	1011	MW3	29.59	18.99	S
	1016	4	19.12	18.96	S
	1029	5	29.11	17.85	S
	1037	6	29.44	19.00	S
	1046	15	28.04	14.80	S
	1059	11	32.49	26.13	F /gasoline smell.

Notes:

All measurements are in feet. S = Well with a soft or silty bottom.
F = Well with a firm bottom.

APPENDIX B
Laboratory Reports and Chain-of-Custody Forms



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149
Date Received : 09/20/07

Job#: 26698724

Total Organic Carbon as NonPurgeable Organic Carbon
EPA Method SW9060/415.1/SM-5310C

Parameter		Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : APMS MW-25					
Lab ID : URS07092020-05A	Total Organic Carbon	1.2	1.0 mg/L	09/18/07	09/25/07
Client ID : APMS MW-18					
Lab ID : URS07092020-07A	Total Organic Carbon	1.2	1.0 mg/L	09/19/07	09/25/07
Client ID : APMS MW-13					
Lab ID : URS07092020-10A	Total Organic Carbon	1.3	1.0 mg/L	09/19/07	09/25/07

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/26/07

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-01A
Client I.D. Number: APMS MW-17

Sampled: 09/17/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	16 µg/L	26 1,3-Dichlorobenzene	ND	4.0 µg/L
2 Vinyl chloride	ND	4.0 µg/L	27 1,4-Dichlorobenzene	ND	4.0 µg/L
3 Chloroethane	ND	4.0 µg/L	28 1,2-Dichlorobenzene	ND	4.0 µg/L
4 Bromomethane	ND	16 µg/L	29 Surr: 1,2-Dichloroethane-d4	101	%REC
5 Trichlorofluoromethane	ND	4.0 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	4.0 µg/L	31 Surr: 4-Bromofluorobenzene	107	%REC
7 Dichloromethane	ND	16 µg/L			
8 trans-1,2-Dichloroethene	ND	4.0 µg/L			
9 1,1-Dichloroethane	ND	4.0 µg/L			
10 cis-1,2-Dichloroethene	ND	4.0 µg/L			
11 Chloroform	ND	4.0 µg/L			
12 1,2-Dichloroethane	ND	4.0 µg/L			
13 1,1,1-Trichloroethane	ND	4.0 µg/L			
14 Carbon tetrachloride	ND	4.0 µg/L			
15 1,2-Dichloropropane	ND	4.0 µg/L			
16 Trichloroethene	ND	4.0 µg/L			
17 Bromodichloromethane	ND	4.0 µg/L			
18 cis-1,3-Dichloropropene	ND	4.0 µg/L			
19 trans-1,3-Dichloropropene	ND	4.0 µg/L			
20 1,1,2-Trichloroethane	ND	4.0 µg/L			
21 Dibromochloromethane	ND	4.0 µg/L			
22 Tetrachloroethene	380	4.0 µg/L			
23 Chlorobenzene	ND	4.0 µg/L			
24 Bromoform	ND	4.0 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	4.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

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PS

9/26/07

Report Date

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-02A
Client I.D. Number: APMS MW-27

Sampled: 09/17/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Chloromethane	ND	16 µg/L	26 1,3-Dichlorobenzene	ND	4.0 µg/L
2 Vinyl chloride	ND	4.0 µg/L	27 1,4-Dichlorobenzene	ND	4.0 µg/L
3 Chloroethane	ND	4.0 µg/L	28 1,2-Dichlorobenzene	ND	4.0 µg/L
4 Bromomethane	ND	16 µg/L	29 Surr: 1,2-Dichloroethane-d4	102	%REC
5 Trichlorofluoromethane	ND	4.0 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	4.0 µg/L	31 Surr: 4-Bromofluorobenzene	105	%REC
7 Dichloromethane	ND	16 µg/L			
8 trans-1,2-Dichloroethene	ND	4.0 µg/L			
9 1,1-Dichloroethane	ND	4.0 µg/L			
10 cis-1,2-Dichloroethene	ND	4.0 µg/L			
11 Chloroform	ND	4.0 µg/L			
12 1,2-Dichloroethane	ND	4.0 µg/L			
13 1,1,1-Trichloroethane	ND	4.0 µg/L			
14 Carbon tetrachloride	ND	4.0 µg/L			
15 1,2-Dichloropropane	ND	4.0 µg/L			
16 Trichloroethene	ND	4.0 µg/L			
17 Bromodichloromethane	ND	4.0 µg/L			
18 cis-1,3-Dichloropropene	ND	4.0 µg/L			
19 trans-1,3-Dichloropropene	ND	4.0 µg/L			
20 1,1,2-Trichloroethane	ND	4.0 µg/L			
21 Dibromochloromethane	ND	4.0 µg/L			
22 Tetrachloroethene	320	4.0 µg/L			
23 Chlorobenzene	ND	4.0 µg/L			
24 Bromoform	ND	4.0 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	4.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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JS

9/26/07

Report Date

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-03A
Client I.D. Number: APMS MW-19

Sampled: 09/17/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/L	26 1,3-Dichlorobenzene	ND	10 µg/L
2 Vinyl chloride	ND	10 µg/L	27 1,4-Dichlorobenzene	ND	10 µg/L
3 Chloroethane	ND	10 µg/L	28 1,2-Dichlorobenzene	ND	10 µg/L
4 Bromomethane	ND	40 µg/L	29 Surr: 1,2-Dichloroethane-d4	100	%REC
5 Trichlorofluoromethane	ND	10 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	10 µg/L	31 Surr: 4-Bromofluorobenzene	106	%REC
7 Dichloromethane	ND	40 µg/L			
8 trans-1,2-Dichloroethene	ND	10 µg/L			
9 1,1-Dichloroethane	ND	10 µg/L			
10 cis-1,2-Dichloroethene	ND	10 µg/L			
11 Chloroform	ND	10 µg/L			
12 1,2-Dichloroethane	ND	10 µg/L			
13 1,1,1-Trichloroethane	ND	10 µg/L			
14 Carbon tetrachloride	ND	10 µg/L			
15 1,2-Dichloropropane	ND	10 µg/L			
16 Trichloroethene	ND	10 µg/L			
17 Bromodichloromethane	ND	10 µg/L			
18 cis-1,3-Dichloropropene	ND	10 µg/L			
19 trans-1,3-Dichloropropene	ND	10 µg/L			
20 1,1,2-Trichloroethane	ND	10 µg/L			
21 Dibromochloromethane	ND	10 µg/L			
22 Tetrachloroethene	510	10 µg/L			
23 Chlorobenzene	ND	10 µg/L			
24 Bromoform	ND	10 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-04A
Client I.D. Number: APMS MW-26

Sampled: 09/18/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Chloromethane	ND	40 µg/L	26 1,3-Dichlorobenzene	ND	10 µg/L
2 Vinyl chloride	ND	10 µg/L	27 1,4-Dichlorobenzene	ND	10 µg/L
3 Chloroethane	ND	10 µg/L	28 1,2-Dichlorobenzene	ND	10 µg/L
4 Bromomethane	ND	40 µg/L	29 Surr: 1,2-Dichloroethane-d4	103	%REC
5 Trichlorofluoromethane	ND	10 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	10 µg/L	31 Surr: 4-Bromofluorobenzene	106	%REC
7 Dichloromethane	ND	40 µg/L			
8 trans-1,2-Dichloroethene	ND	10 µg/L			
9 1,1-Dichloroethane	ND	10 µg/L			
10 cis-1,2-Dichloroethene	ND	10 µg/L			
11 Chloroform	ND	10 µg/L			
12 1,2-Dichloroethane	ND	10 µg/L			
13 1,1,1-Trichloroethane	ND	10 µg/L			
14 Carbon tetrachloride	ND	10 µg/L			
15 1,2-Dichloropropane	ND	10 µg/L			
16 Trichloroethene	ND	10 µg/L			
17 Bromodichloromethane	ND	10 µg/L			
18 cis-1,3-Dichloropropene	ND	10 µg/L			
19 trans-1,3-Dichloropropene	ND	10 µg/L			
20 1,1,2-Trichloroethane	ND	10 µg/L			
21 Dibromochloromethane	ND	10 µg/L			
22 Tetrachloroethene	620	10 µg/L			
23 Chlorobenzene	ND	10 µg/L			
24 Bromoform	ND	10 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-05A
Client I.D. Number: APMS MW-25

Sampled: 09/18/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/L	26 1,3-Dichlorobenzene	ND	10 µg/L
2 Vinyl chloride	ND	10 µg/L	27 1,4-Dichlorobenzene	ND	10 µg/L
3 Chloroethane	ND	10 µg/L	28 1,2-Dichlorobenzene	ND	10 µg/L
4 Bromomethane	ND	40 µg/L	29 Surr: 1,2-Dichloroethane-d4	102	%REC
5 Trichlorofluoromethane	ND	10 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	10 µg/L	31 Surr: 4-Bromofluorobenzene	107	%REC
7 Dichloromethane	ND	40 µg/L			
8 trans-1,2-Dichloroethene	ND	10 µg/L			
9 1,1-Dichloroethane	ND	10 µg/L			
10 cis-1,2-Dichloroethene	ND	10 µg/L			
11 Chloroform	ND	10 µg/L			
12 1,2-Dichloroethane	ND	10 µg/L			
13 1,1,1-Trichloroethane	ND	10 µg/L			
14 Carbon tetrachloride	ND	10 µg/L			
15 1,2-Dichloropropane	ND	10 µg/L			
16 Trichloroethene	ND	10 µg/L			
17 Bromodichloromethane	ND	10 µg/L			
18 cis-1,3-Dichloropropene	ND	10 µg/L			
19 trans-1,3-Dichloropropene	ND	10 µg/L			
20 1,1,2-Trichloroethane	ND	10 µg/L			
21 Dibromochloromethane	ND	10 µg/L			
22 Tetrachloroethene	560	10 µg/L			
23 Chlorobenzene	ND	10 µg/L			
24 Bromoform	ND	10 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-06A
Client I.D. Number: APMS MW-23

Sampled: 09/19/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Chloromethane	ND	40 µg/L	26 1,3-Dichlorobenzene	ND	10 µg/L
2 Vinyl chloride	ND	10 µg/L	27 1,4-Dichlorobenzene	ND	10 µg/L
3 Chloroethane	ND	10 µg/L	28 1,2-Dichlorobenzene	ND	10 µg/L
4 Bromomethane	ND	40 µg/L	29 Surr: 1,2-Dichloroethane-d4	99	%REC
5 Trichlorofluoromethane	ND	10 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	10 µg/L	31 Surr: 4-Bromofluorobenzene	106	%REC
7 Dichloromethane	ND	40 µg/L			
8 trans-1,2-Dichloroethene	ND	10 µg/L			
9 1,1-Dichloroethane	ND	10 µg/L			
10 cis-1,2-Dichloroethene	ND	10 µg/L			
11 Chloroform	ND	10 µg/L			
12 1,2-Dichloroethane	ND	10 µg/L			
13 1,1,1-Trichloroethane	ND	10 µg/L			
14 Carbon tetrachloride	ND	10 µg/L			
15 1,2-Dichloropropane	ND	10 µg/L			
16 Trichloroethene	ND	10 µg/L			
17 Bromodichloromethane	ND	10 µg/L			
18 cis-1,3-Dichloropropene	ND	10 µg/L			
19 trans-1,3-Dichloropropene	ND	10 µg/L			
20 1,1,2-Trichloroethane	ND	10 µg/L			
21 Dibromochloromethane	ND	10 µg/L			
22 Tetrachloroethene	750	10 µg/L			
23 Chlorobenzene	ND	10 µg/L			
24 Bromoform	ND	10 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-07A
Client I.D. Number: APMS MW-18

Sampled: 09/19/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/L	26 1,3-Dichlorobenzene	ND	10 µg/L
2 Vinyl chloride	ND	10 µg/L	27 1,4-Dichlorobenzene	ND	10 µg/L
3 Chloroethane	ND	10 µg/L	28 1,2-Dichlorobenzene	ND	10 µg/L
4 Bromomethane	ND	40 µg/L	29 Surr: 1,2-Dichloroethane-d4	97	%REC
5 Trichlorofluoromethane	ND	10 µg/L	30 Surr: Toluene-d8	100	%REC
6 1,1-Dichloroethene	ND	10 µg/L	31 Surr: 4-Bromofluorobenzene	109	%REC
7 Dichloromethane	ND	40 µg/L			
8 trans-1,2-Dichloroethene	ND	10 µg/L			
9 1,1-Dichloroethane	ND	10 µg/L			
10 cis-1,2-Dichloroethene	ND	10 µg/L			
11 Chloroform	ND	10 µg/L			
12 1,2-Dichloroethane	ND	10 µg/L			
13 1,1,1-Trichloroethane	ND	10 µg/L			
14 Carbon tetrachloride	ND	10 µg/L			
15 1,2-Dichloropropane	ND	10 µg/L			
16 Trichloroethene	ND	10 µg/L			
17 Bromodichloromethane	ND	10 µg/L			
18 cis-1,3-Dichloropropene	ND	10 µg/L			
19 trans-1,3-Dichloropropene	ND	10 µg/L			
20 1,1,2-Trichloroethane	ND	10 µg/L			
21 Dibromochloromethane	ND	10 µg/L			
22 Tetrachloroethene	930	10 µg/L			
23 Chlorobenzene	ND	10 µg/L			
24 Bromoform	ND	10 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-08A
Client I.D. Number: APMS MW-20

Sampled: 09/19/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Chloromethane	ND	20 µg/L	26 1,3-Dichlorobenzene	ND	5.0 µg/L
2 Vinyl chloride	ND	5.0 µg/L	27 1,4-Dichlorobenzene	ND	5.0 µg/L
3 Chloroethane	ND	5.0 µg/L	28 1,2-Dichlorobenzene	ND	5.0 µg/L
4 Bromomethane	ND	20 µg/L	29 Surr: 1,2-Dichloroethane-d4	103	%REC
5 Trichlorofluoromethane	ND	5.0 µg/L	30 Surr: Toluene-d8	98	%REC
6 1,1-Dichloroethene	ND	5.0 µg/L	31 Surr: 4-Bromofluorobenzene	108	%REC
7 Dichloromethane	ND	20 µg/L			
8 trans-1,2-Dichloroethene	ND	5.0 µg/L			
9 1,1-Dichloroethane	ND	5.0 µg/L			
10 cis-1,2-Dichloroethene	ND	5.0 µg/L			
11 Chloroform	ND	5.0 µg/L			
12 1,2-Dichloroethane	ND	5.0 µg/L			
13 1,1,1-Trichloroethane	ND	5.0 µg/L			
14 Carbon tetrachloride	ND	5.0 µg/L			
15 1,2-Dichloropropane	ND	5.0 µg/L			
16 Trichloroethene	ND	5.0 µg/L			
17 Bromodichloromethane	ND	5.0 µg/L			
18 cis-1,3-Dichloropropene	ND	5.0 µg/L			
19 trans-1,3-Dichloropropene	ND	5.0 µg/L			
20 1,1,2-Trichloroethane	ND	5.0 µg/L			
21 Dibromochloromethane	ND	5.0 µg/L			
22 Tetrachloroethene	730	5.0 µg/L			
23 Chlorobenzene	ND	5.0 µg/L			
24 Bromoform	ND	5.0 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-09A
Client I.D. Number: APMS MW-14

Sampled: 09/19/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Chloromethane	ND	40 µg/L	26 1,3-Dichlorobenzene	ND	10 µg/L
2 Vinyl chloride	ND	10 µg/L	27 1,4-Dichlorobenzene	ND	10 µg/L
3 Chloroethane	ND	10 µg/L	28 1,2-Dichlorobenzene	ND	10 µg/L
4 Bromomethane	ND	40 µg/L	29 Surr: 1,2-Dichloroethane-d4	102	%REC
5 Trichlorofluoromethane	ND	10 µg/L	30 Surr: Toluene-d8	99	%REC
6 1,1-Dichloroethene	ND	10 µg/L	31 Surr: 4-Bromofluorobenzene	107	%REC
7 Dichloromethane	ND	40 µg/L			
8 trans-1,2-Dichloroethene	ND	10 µg/L			
9 1,1-Dichloroethane	ND	10 µg/L			
10 cis-1,2-Dichloroethene	ND	10 µg/L			
11 Chloroform	ND	10 µg/L			
12 1,2-Dichloroethane	ND	10 µg/L			
13 1,1,1-Trichloroethane	ND	10 µg/L			
14 Carbon tetrachloride	ND	10 µg/L			
15 1,2-Dichloropropane	ND	10 µg/L			
16 Trichloroethene	ND	10 µg/L			
17 Bromodichloromethane	ND	10 µg/L			
18 cis-1,3-Dichloropropene	ND	10 µg/L			
19 trans-1,3-Dichloropropene	ND	10 µg/L			
20 1,1,2-Trichloroethane	ND	10 µg/L			
21 Dibromochloromethane	ND	10 µg/L			
22 Tetrachloroethene	650	10 µg/L			
23 Chlorobenzene	ND	10 µg/L			
24 Bromoform	ND	10 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Alpha Analytical Number: URS07092020-10A
Client I.D. Number: APMS MW-13

Sampled: 09/19/07
Received: 09/20/07
Analyzed: 09/21/07

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	80 µg/L	26 1,3-Dichlorobenzene	ND	20 µg/L
2 Vinyl chloride	ND	20 µg/L	27 1,4-Dichlorobenzene	ND	20 µg/L
3 Chloroethane	ND	20 µg/L	28 1,2-Dichlorobenzene	ND	20 µg/L
4 Bromomethane	ND	80 µg/L	29 Surr: 1,2-Dichloroethane-d4	103	%REC
5 Trichlorofluoromethane	ND	20 µg/L	30 Surr: Toluene-d8	98	%REC
6 1,1-Dichloroethene	ND	20 µg/L	31 Surr: 4-Bromofluorobenzene	106	%REC
7 Dichloromethane	ND	80 µg/L			
8 trans-1,2-Dichloroethene	ND	20 µg/L			
9 1,1-Dichloroethane	ND	20 µg/L			
10 cis-1,2-Dichloroethene	ND	20 µg/L			
11 Chloroform	ND	20 µg/L			
12 1,2-Dichloroethane	ND	20 µg/L			
13 1,1,1-Trichloroethane	ND	20 µg/L			
14 Carbon tetrachloride	ND	20 µg/L			
15 1,2-Dichloropropane	ND	20 µg/L			
16 Trichloroethene	ND	20 µg/L			
17 Bromodichloromethane	ND	20 µg/L			
18 cis-1,3-Dichloropropene	ND	20 µg/L			
19 trans-1,3-Dichloropropene	ND	20 µg/L			
20 1,1,2-Trichloroethane	ND	20 µg/L			
21 Dibromochloromethane	ND	20 µg/L			
22 Tetrachloroethene	2,000	20 µg/L			
23 Chlorobenzene	ND	20 µg/L			
24 Bromoform	ND	20 µg/L			
25 1,1,2,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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VOC Sample Preservation Report

Work Order: URS07092020

Project: 26698724

Alpha's Sample ID	Client's Sample ID	Matrix	pH
07092020-01A	APMS MW-17	Aqueous	2
07092020-02A	APMS MW-27	Aqueous	2
07092020-03A	APMS MW-19	Aqueous	2
07092020-04A	APMS MW-26	Aqueous	2
07092020-05A	APMS MW-25	Aqueous	2
07092020-06A	APMS MW-23	Aqueous	2
07092020-07A	APMS MW-18	Aqueous	2
07092020-08A	APMS MW-20	Aqueous	4
07092020-09A	APMS MW-14	Aqueous	2
07092020-10A	APMS MW-13	Aqueous	2

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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149
Date Received : 09/20/07

Job#: 26698724

Metals by ICPMS
EPA Method SW6020

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : APMS MW-25					
Lab ID : URS07092020-05A	Manganese (Mn)	0.0096	0.0050 mg/L	09/18/07	09/20/07
	Iron (Fe)	1.6	0.30 mg/L	09/18/07	09/20/07
Client ID : APMS MW-18					
Lab ID : URS07092020-07A	Manganese (Mn)	ND	0.0050 mg/L	09/19/07	09/24/07
	Iron (Fe)	2.0	0.30 mg/L	09/19/07	09/24/07
Client ID : APMS MW-13					
Lab ID : URS07092020-10A	Manganese (Mn)	ND	0.0050 mg/L	09/19/07	09/20/07
	Iron (Fe)	1.6	0.30 mg/L	09/19/07	09/20/07

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149
Date Received : 09/20/07

Job#: 26698724

Alkalinity
SM2320B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : APMS MW-25					
Lab ID : URS07092020-05A	Alkalinity, Total (As CaCO ₃ at pH 4.5)	240	1.0 mg/L	09/18/07	09/21/07
Client ID : APMS MW-18					
Lab ID : URS07092020-07A	Alkalinity, Total (As CaCO ₃ at pH 4.5)	210	1.0 mg/L	09/19/07	09/21/07
Client ID : APMS MW-13					
Lab ID : URS07092020-10A	Alkalinity, Total (As CaCO ₃ at pH 4.5)	240	1.0 mg/L	09/19/07	09/21/07

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

URS Corporation
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Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149
Date Received : 09/20/07

Job#: 26698724

Anions by IC
EPA Method 300.0 / 9056

	Parameter	Concentration	Reporting Limit	Date / Time Sampled	Date / Time Analyzed
Client ID : APMS MW-25 Lab ID : URS07092020-05A	Nitrate (NO3) - N	5.1	0.25 mg/L	09/18/07 15:22	09/20/07 11:50
Client ID : APMS MW-18 Lab ID : URS07092020-07A	Nitrate (NO3) - N	5.8	0.25 mg/L	09/19/07 13:07	09/20/07 12:09
Client ID : APMS MW-13 Lab ID : URS07092020-10A	Nitrate (NO3) - N	6.2	0.25 mg/L	09/19/07 15:51	09/20/07 12:27

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/26/07

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

URS Corporation
811 Grier Dr.
Las Vegas, NV 89119
Job#: 26698724

Attn: Holly Woodward
Phone: (702) 492-7922
Fax: (702) 492-9149

Anions by Ion Chromatography (IC) EPA Method 300.0 / SW9056

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : APMS MW-25					
Lab ID : URS07092020-05A	Chloride	210	5.0 mg/L	09/18/07	09/20/07
	Sulfate (SO4)	1,800	100 mg/L	09/18/07	09/20/07
Client ID : APMS MW-18					
Lab ID : URS07092020-07A	Chloride	190	5.0 mg/L	09/19/07	09/20/07
	Sulfate (SO4)	1,700	100 mg/L	09/19/07	09/20/07
Client ID : APMS MW-13					
Lab ID : URS07092020-10A	Chloride	210	5.0 mg/L	09/19/07	09/20/07
	Sulfate (SO4)	1,700	100 mg/L	09/19/07	09/20/07

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/26/07

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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Date:
25-Sep-07

QC Summary Report

Work Order:
07092020

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\070921\07092105.D**

Batch ID: **MS07W0921A**

Analysis Date: **09/21/2007 11:01**

Sample ID: **MBLK_MS07W0921A**

Units : **µg/L**

Run ID: **MSD_07_070921A**

Prep Date: **09/21/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	2								
Vinyl chloride	ND	1								
Chloroethane	ND	1								
Bromomethane	ND	2								
Trichlorofluoromethane	ND	1								
1,1-Dichloroethene	ND	1								
Dichloromethane	ND	2								
trans-1,2-Dichloroethene	ND	1								
1,1-Dichloroethane	ND	1								
cis-1,2-Dichloroethene	ND	1								
Chloroform	ND	1								
1,2-Dichloroethane	ND	1								
1,1,1-Trichloroethane	ND	1								
Carbon tetrachloride	ND	1								
1,2-Dichloropropane	ND	1								
Trichloroethene	ND	1								
Bromodichloromethane	ND	1								
cis-1,3-Dichloropropene	ND	1								
trans-1,3-Dichloropropene	ND	1								
1,1,2-Trichloroethane	ND	1								
Dibromochloromethane	ND	1								
Tetrachloroethene	ND	1								
Chlorobenzene	ND	1								
Bromoform	ND	1								
1,1,2,2-Tetrachloroethane	ND	1								
1,3-Dichlorobenzene	ND	1								
1,4-Dichlorobenzene	ND	1								
1,2-Dichlorobenzene	ND	1								
Surr: 1,2-Dichloroethane-d4	9.87		10		99	75	128			
Surr: Toluene-d8	9.93		10		99	80	120			
Surr: 4-Bromofluorobenzene	10.6		10		106	80	120			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\070921\07092104.D**

Batch ID: **MS07W0921A**

Analysis Date: **09/21/2007 10:38**

Sample ID: **LCS MS07W0921A**

Units : **µg/L**

Run ID: **MSD_07_070921A**

Prep Date: **09/21/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.78	1	10		88	80	120			
Trichloroethene	9.72	1	10		97	70	130			
Chlorobenzene	10.1	1	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10		98	75	128			
Surr: Toluene-d8	10.1		10		101	80	120			
Surr: 4-Bromofluorobenzene	11.1		10		111	80	120			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\070921\07092106.D**

Batch ID: **MS07W0921A**

Analysis Date: **09/21/2007 11:34**

Sample ID: **07091935-02AMS**

Units : **µg/L**

Run ID: **MSD_07_070921A**

Prep Date: **09/21/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	33.1	2.5	50	0	66	66	132			
Trichloroethene	39.5	2.5	50	0	79	69	130			
Chlorobenzene	42.8	2.5	50	0	86	70	130			
Surr: 1,2-Dichloroethane-d4	44.9		50		90	75	128			
Surr: Toluene-d8	51.5		50		103	80	120			
Surr: 4-Bromofluorobenzene	57.3		50		115	80	120			



Alpha Analytical, Inc.

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Date:
25-Sep-07

QC Summary Report

Work Order:
07092020

Sample Matrix Spike Duplicate

Type **MSD**

Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS07\DATA\070921\07092107.D**

Batch ID: **MS07W0921A**

Analysis Date: **09/21/2007 11:56**

Sample ID: **07091935-02AMSD**

Units: **µg/L**

Run ID: **MSD_07_070921A**

Prep Date: **09/21/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	33	2.5	50	0	66	66	132	33.08	0.1(20)	
Trichloroethene	38.4	2.5	50	0	77	69	130	39.49	2.7(20)	
Chlorobenzene	44.8	2.5	50	0	90	70	130	42.76	4.7(20)	
Surr: 1,2-Dichloroethane-d4	48.6		50		97	75	128			
Surr: Toluene-d8	52.4		50		105	80	120			
Surr: 4-Bromofluorobenzene	56.2		50		112	80	120			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
26-Sep-07

QC Summary Report

Work Order:
07092020

Method Blank

File ID:	Type MBLK		Test Code: EPA Method SW9060/415.1/SM-5310C						
Sample ID: MBLK-TOC0925	Units : mg/L	Batch ID: TOC0925		Analysis Date: 09/25/2007 12:16					
Analyte	Result	PQL	Run ID: TOC_070925A	Prep Date: 09/25/2007					
Total Organic Carbon	ND	1	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit) Qual

Laboratory Control Spike

File ID:	Type LCS		Test Code: EPA Method SW9060/415.1/SM-5310C						
Sample ID: LCS-TOC0925	Units : mg/L	Batch ID: TOC0925		Analysis Date: 09/25/2007 11:53					
Analyte	Result	PQL	Run ID: TOC_070925A	Prep Date: 09/25/2007					
Total Organic Carbon	5.43	1	5	109	74	126			

Sample Matrix Spike

File ID:	Type MS		Test Code: EPA Method SW9060/415.1/SM-5310C						
Sample ID: 07092432-01AMS	Units : mg/L	Batch ID: TOC0925		Analysis Date: 09/25/2007 15:05					
Analyte	Result	PQL	Run ID: TOC_070925A	Prep Date: 09/25/2007					
Total Organic Carbon	5.24	1	5	0	105	56	137		

Sample Matrix Spike Duplicate

File ID:	Type MSD		Test Code: EPA Method SW9060/415.1/SM-5310C						
Sample ID: 07092432-01AMSD	Units : mg/L	Batch ID: TOC0925		Analysis Date: 09/25/2007 15:31					
Analyte	Result	PQL	Run ID: TOC_070925A	Prep Date: 09/25/2007					
Total Organic Carbon	5.04	1	5	0	101	56	137	5.237	3.8(20)

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
25-Sep-07

QC Summary Report

Work Order:
07092020

Method Blank

File ID: 092007.B\068_ICB.D\

Type **MBLK**

Test Code: **EPA Method 200.8**

Batch ID: **18374**

Analysis Date: **09/20/2007 18:34**

Sample ID: **MB-18374**

Units : **mg/L**

Run ID: **ICP/MS_070920B**

Prep Date: **09/20/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn)	ND	0.005								
Iron (Fe)	ND	0.3								

Laboratory Control Spike

File ID: 092007.B\069_LCS.D\

Type **LCS**

Test Code: **EPA Method 200.8**

Batch ID: **18374**

Analysis Date: **09/20/2007 18:39**

Sample ID: **LCS-18374**

Units : **mg/L**

Run ID: **ICP/MS_070920B**

Prep Date: **09/20/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn)	2.56	0.005	2.5		102	83	120			
Iron (Fe)	50	0.3	50		100	83	119			

Sample Matrix Spike

File ID: 092007.B\072SMPL.D\

Type **MS**

Test Code: **EPA Method 200.8**

Batch ID: **18374**

Analysis Date: **09/20/2007 18:54**

Sample ID: **07092051-02AMS**

Units : **mg/L**

Run ID: **ICP/MS_070920B**

Prep Date: **09/20/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn)	2.52	0.005	2.5	0.06704	98	70	130			
Iron (Fe)	49.2	0.3	50	3.319	92	70	130			

Sample Matrix Spike Duplicate

File ID: 092007.B\073SMPL.D\

Type **MSD**

Test Code: **EPA Method 200.8**

Batch ID: **18374**

Analysis Date: **09/20/2007 18:59**

Sample ID: **07092051-02AMSD**

Units : **mg/L**

Run ID: **ICP/MS_070920B**

Prep Date: **09/20/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Manganese (Mn)	2.47	0.005	2.5	0.06704	96	70	130	2.519	1.9(20)	
Iron (Fe)	50.3	0.3	50	3.319	94	70	130	49.18	2.3(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
24-Sep-07

QC Summary Report

Work Order:
07092020

Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0921ALA**

Analysis Date: **09/21/2007 00:00**

Sample ID: **LCS-W0921ALA**

Units : **mg/L**

Run ID: **WETLAB_070921C**

Prep Date: **09/21/2007**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Total (As CaCO ₃ at pH 4.5)	5.01	1	5		100	90	110			

Comments:

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Alpha Analytical, Inc.

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Date:
25-Sep-07

QC Summary Report

Work Order:
07092020

Method Blank

File ID: 13	Type MBLK	Test Code: EPA Method 300.0 / 9056							
		Batch ID: 18370A				Analysis Date: 09/20/2007 10:55			
Sample ID: MB-18370	Units : mg/L	Run ID: IC_2_070920A				Prep Date: 09/20/2007			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit) Qual
Nitrate (NO3) - N	ND	0.25							

Laboratory Fortified Blank

File ID: 14	Type LFB	Test Code: EPA Method 300.0 / 9056							
		Batch ID: 18370A				Analysis Date: 09/20/2007 11:13			
Sample ID: LFB-18370	Units : mg/L	Run ID: IC_2_070920A				Prep Date: 09/20/2007			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit) Qual
Nitrate (NO3) - N	1.26	0.25	1.25		100	90	110		

Sample Matrix Spike

File ID: 24	Type LFM	Test Code: EPA Method 300.0 / 9056							
		Batch ID: 18370A				Analysis Date: 09/20/2007 14:18			
Sample ID: 07092041-03ALFM	Units : mg/L	Run ID: IC_2_070920A				Prep Date: 09/20/2007			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit) Qual
Nitrate (NO3) - N	2.34	0.25	1.25	1.137	96	80	120		

Sample Matrix Spike Duplicate

File ID: 25	Type LFMD	Test Code: EPA Method 300.0 / 9056							
		Batch ID: 18370A				Analysis Date: 09/20/2007 14:37			
Sample ID: 07092041-03ALFMD	Units : mg/L	Run ID: IC_2_070920A				Prep Date: 09/20/2007			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit) Qual
Nitrate (NO3) - N	2.33	0.25	1.25	1.137	95	80	120	2.342	0.7(10)

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
25-Sep-07

QC Summary Report

Work Order:
07092020

Method Blank

File ID: 13		Batch ID: 18370B					Analysis Date: 09/20/2007 10:55			
Sample ID: MB-18370	Units : mg/L	Run ID: IC_2_070920B					Prep Date: 09/20/2007			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

File ID: 14		Batch ID: 18370B					Analysis Date: 09/20/2007 11:13			
Sample ID: LFB-18370	Units : mg/L	Run ID: IC_2_070920B					Prep Date: 09/20/2007			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	10.3	0.5	10		103	90	110			

Sample Matrix Spike

File ID: 31			Batch ID: 18370B					Analysis Date: 09/20/2007 16:28		
Sample ID: 07092041-03ALFM		Units : mg/L	Run ID: IC_2_070920B					Prep Date: 09/20/2007		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	63.4	0.5	20	42.29	105	80	120			

Sample Matrix Spike Duplicate

File ID: 32			Batch ID: 18370B					Analysis Date: 09/20/2007 16:46		
Sample ID: 07092041-03ALFMD		Units : mg/L	Run ID: IC_2_070920B					Prep Date: 09/20/2007		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	64	0.5	20	42.29	108	80	120	63.38	0.9(10)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
25-Sep-07

QC Summary Report

Work Order:
07092020

Method Blank

Method Blank			Type	MBLK							Test Code: EPA Method 300.0 / 9056				
File ID: 13						Batch ID: 18370C				Analysis Date: 09/20/2007 10:55					
Sample ID: MB-18370			Units : mg/L		Run ID: IC_2_070920B			Prep Date: 09/20/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual					
Chloride	ND	0.5													

Laboratory Fortified Blank

Laboratory Fortified Blank			Type	LFB							Test Code: EPA Method 300.0 / 9056			
File ID: 14						Batch ID: 18370C				Analysis Date: 09/20/2007 11:13				
Sample ID: LFB-18370		Units : mg/L		Run ID: IC_2_070920B			Prep Date: 09/20/2007							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual				
Chloride	4.98	0.5	5		99.6	90	110							

Sample Matrix Spike

Sample Matrix Spike			Type	LFM	Test Code: EPA Method 300.0 / 9056					
File ID: 31						Batch ID: 18370C		Analysis Date: 09/20/2007 16:28		
Sample ID: 07092041-03ALFM		Units : mg/L	Run ID: IC_2_070920B			Prep Date: 09/20/2007				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloride	56.8	0.5	10	45.53	112	80	120			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate			Type	LFMD							Test Code: EPA Method 300.0 / 9056		
File ID: 32						Batch ID: 18370C			Analysis Date: 09/20/2007 16:46				
Sample ID: 07092041-03ALFMD		Units : mg/L		Run ID: IC_2_070920B			Prep Date: 09/20/2007						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual			
Chloride	57.6	0.5	10	45.53	121	80	120	56.77	1.5(10)	M3			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

Billing Information :

CHAIN-OF-CUSTODY RECORD

Page: 1 of 1

NV

WorkOrder : URSLO7092020

Report Due By : 5:00 PM On : 27-Sep-07

Client:

URS Corporation
811 Grier Dr.

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

EDD Required : No

Las Vegas, NV 89119

Sampled by : Holly Woodward

Report Attention : Holly Woodward

Job : 26698724

CC Report :

PO : MS-A1 Phillips

Client's COC # : 12415,15407

Cooler Temp Samples Received Date Printed
4 °C 20-Sep-07 20-Sep-07

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles ORG	SUB	TAT	PWS #	Requested Tests						Sample Remarks	
							ALKALINITY_w	ANIONS(A)_w	ANIONS(B)_w	ANIONS(C)_w	METALS_A_Q	TOC_w		VOC_w
URS07092020-01A	APMS MW-17	AQ 09/17/07 14:47	3	0	5							8010		
URS07092020-02A	APMS MW-27	AQ 09/17/07 15:59	3	0	5							8010		
URS07092020-03A	APMS MW-19	AQ 09/17/07 17:05	3	0	5							8010		
URS07092020-04A	APMS MW-26	AQ 09/18/07 14:11	3	0	5							8010		
URS07092020-05A	APMS MW-25	AQ 09/18/07 15:22	6	0	5		Alk	CLINO3,S04	CLINO3,S04	CLINO3,S04	Fe,Mn	TOC	8010	
URS07092020-06A	APMS MW-23	AQ 09/19/07 10:27	3	0	5							8010		
URS07092020-07A	APMS MW-18	AQ 09/19/07 13:07	6	0	5		Alk	CLINO3,S04	CLINO3,S04	CLINO3,S04	Fe,Mn	TOC	8010	
URS07092020-08A	APMS MW-20	AQ 09/19/07 14:12	3	0	5							8010		
URS07092020-09A	APMS MW-14	AQ 09/19/07 15:05	3	0	5							8010		
URS07092020-10A	APMS MW-13	AQ 09/19/07 15:51	6	0	5		Alk	CLINO3,S04	CLINO3,S04	CLINO3,S04	Fe,Mn	TOC	8010	

Comments:

Security seals intact. Frozen ice. TOC pH=2.:

Signature

Print Name

Company

Date/Time

Logged in by:

*K Murney**K Murney*

Alpha Analytical, Inc.

9/20/07 0955

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Name URS Corporation
 Address 811 Guadalupe Drive
 City, State, Zip Las Vegas, NV 89119
 Phone Number 702-492-7100 Fax 702-492-9149



Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
 Phone (775) 355-1044
 Fax (775) 355-0406

Samples Collected From Which State?

AZ ☐ CA ☐ NV ☒ WA ☐
 ID ☐ OR ☐ OTHER ☐

Page # 1 of 2

Analyses Required

12415

Client Name URS Corporation
 Address 811 Guadalupe Drive
 City, State, Zip Las Vegas, NV 89119

P.O. # MS-AL Phillips Job # 26698724
 Email Address 10114-woodward@urscorp.com
 Phone # 702-492-7922 Fax # 702-492-9149

Required QC Level?

I II III IV

EDP / EDP? YES NO

Global ID #

REMARKS

Time Sampled	Date Sampled	Matrix* See key Below	Office Use Only Lab ID Number	Sampled by	Report Attention	Sample Description	TAT	Field Filled	Total and type of containers ** See below	8010	TOC	Fe/Mn	Cl/N	Alk	Global ID #	REMARKS
1/4/07	7/19/07	SO	URS07092020-01	URS	NW-17				3VGA	X						
1/5/07	7/19/07	SO		URS	NW-27				3VGA	X						
1/20/07	7/19/07	SO		URS	NW-19				3VGA	X						
1/4/11	7/19/07	SO		URS	NW-26				3VGA	X						
1/5/07	7/19/07	SO		URS	NW-25				3VGA	X						
1/27/07	7/19/07	SO		URS	NW-23				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1AG		X					
1/30/07	7/19/07	SO		URS	NW-18				1P			X				
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P				X			
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P					X		
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P						X	
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7/19/07	SO		URS	NW-18				1P							
1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
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1/30/07	7/19/07	SO		URS	NW-18				3VGA	X						
1/30/07	7															

Billing Information:

Name URS Corporation
 Address 811 Graver Drive
 City, State, Zip Las Vegas, NV 89119
 Phone Number 702-492-7900 Fax 702-492-9149



Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
 Phone (775) 355-1044
 Fax (775) 355-0406

Samples Collected From Which State?
 AZ ☐ CA ☐ NV ☒ WA ☐
 ID ☐ OR ☐ OTHER ☐

Page # 2 of 2

Analyses Required

15407

Client Name

P.O. #

Job #

ms-01 Phillips

Address

Email Address

ms-woodward@vrsair.com

City, State, Zip

Phone #

Fax #

702-492-7922

702-492-9149

Time Sampled

Date Sampled

Matrix* See Key Below

Sampled by

Lab ID Number

(Office Use Only)

Report Attention

Sample Description

TAT

Field Filled

Total and type of containers ** See below

3VQA

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ADDITIONAL INSTRUCTIONS:

Signature

Print Name

Company

Date

Time

Relinquished by

Holly Woodward

Holly Woodward

URS

9-19-07

4:35pm

Received by

V. Smith

V. Smith

URS

9-19-07

4:35

Relinquished by

V. Smith

V. Smith

URS

9-19-07

4:35

Received by

E. Murray

E. Murray

URS

9/20/07

0910

Relinquished by

E. Murray

E. Murray

URS

9/20/07

0910

Received by

E. Murray

E. Murray